

OUR
20th YEAR

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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Vol. 20 No. 12 - 240th Consecutive Monthly Issue - Baraboo, Wisconsin - December 1989

HAPPY HOLIDAYS!

May the
joyous spirit of
the Christmas season
bring you peace
and happiness
through the coming year.

Merry Christmas
to one and all.

The Badger State
Smoke Signals Staff:

Ken Ebnetter, K9EN
Chairman

Jim Decker, WB9UQT
Treasurer

Jim Romelfanger, K9ZZ
Editor



More Vehicles Eligible for Ham Plates

On November 8, 1989, the Wisconsin legislature enacted Wisconsin Act 54, which makes more types of motor vehicles, in addition to the currently permitted automobiles and station wagons, eligible to carry Amateur Radio call sign license plates. Section 341.14(2) of the Wisconsin statutes was modified to add the following vehicle types:

- * Motor homes
- * Dual purpose motor homes
- * Dual purpose farm trucks which have a gross weight of not more than 8,000 pounds
- * Farm trucks which have a gross weight of not more than 12,000 pounds.

The normal registration fee for the vehicle type must be paid, plus an additional fee of \$10.00 for the call sign license plates. The additional \$10.00, as with cars and station wagons, is paid ONLY when plates are issued; the added fee is NOT paid when renewal STICKERS are issued.

The bill to allow Ham plates on the vehicles types listed above was originally drafted by Russ Fleming, WB9NYG, two years ago, and was introduced by Rep. David Travis, but the legislature adjourned without action on the bill. The exact same bill was introduced by another legislator in the current session, and was passed.

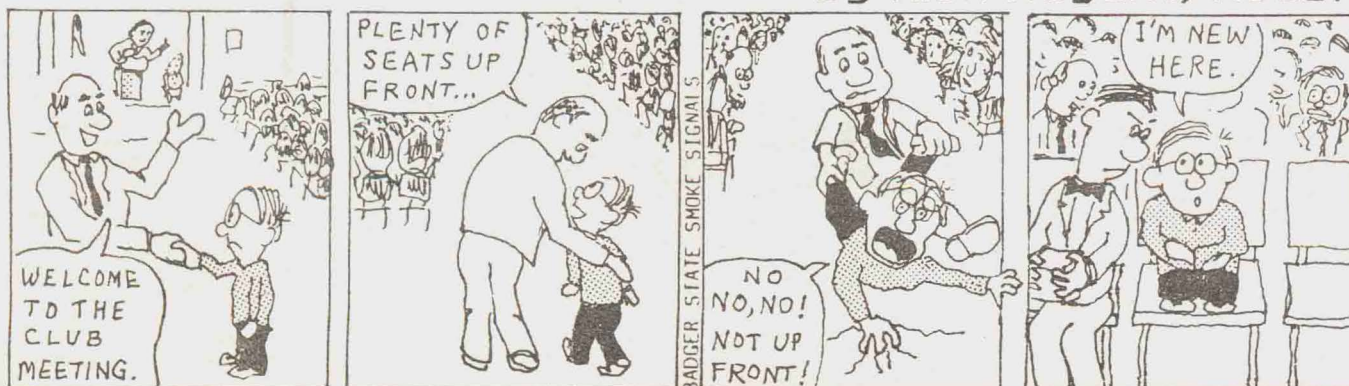
- Information from Russ Fleming, WB9NYG

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ELMER

by Rich Regent, K9GDF



Swapfests and other Social Events

SATURDAY, JANUARY 13, 1990. The Original Midwinter Swapfest sponsored by the West Allis Radio Amateurs Club, at the Waukesha Exposition Center, Highways J & FT, Waukesha, Wisconsin. Contact: WARAC, P.O. box 1072, Milwaukee, WI 53201. (see ad elsewhere this issue for further information.)

SUNDAY, JANUARY 28, 1990. Wheaton Community Radio Amateurs Hamfest. At the Odeum Exposition Center, Villa Park, IL. \$4.00 advance or \$5.00 at the door. Contact: W.C.R.A., P.O. Box QSL, Wheaton, IL 60189.

SATURDAY, FEBRUARY 24, 1990. The Fox Cities ARC will sponsor HAMFEST 1990 at Sabre Lanes, Menasha, Wisconsin. Contact: Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI 54130. (414) 766-3886.

SUNDAY, MARCH 25, 1990. Lamarsfest at Grayslake, IL. Contact: Lamars, Box 751, Libertyville, IL 60048.

SUNDAY, APRIL 8, 1990. Madison swapfest sponsored by the Madison Area Repeater Association at the Dane County Expo Center, Forum Building, Madison WI. Contact: MARA, P.O. box 4007, Madison, WI 53711.

SATURDAY, MAY 5, 1990. The Twelfth Annual Swapfest of the Ozaukee Radio Club will be held at the Circle B Recreation Center in Cedarburg, WI. Contact: ORC Swap, N5415 Crystal Springs Ct., Fredonia, WI 53021. (414) 692-2329

SATURDAY, MAY 12, 1990. Lakeshore Hamfest, Manitowoc, WI sponsored by Mancorad Radio Club. Contact: Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 54221-0204.

JUNE 8-10, 1990. ARRL National Convention, Kansas City, MO.

SATURDAY, JULY 7, 1990. South Milwaukee ARC Swapfest at the American Legion Park, Shepard Ave., Oak Creek, WI. Contact: SMARC, P.O. Box 102, Milwaukee, WI 53172.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

For the complete listing of club meetings, see CLUB MEETINGS column in the November 1989 issue of BSSS.

The club meetings column is no longer carried on a monthly basis. Most of the information does not change from month-to-month, so to allow room for more articles, we will print the full listing on a quarterly basis. We will, however, continue to list any additions or changes every month.



SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

WANTED: Filter Capacitor 10-30 mfd at 3000 volts. Jack Tinsman, KA9EOX, W2874 Pine Mead Ave., Shawano, WI 54166.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

December 2, 1989	Madison, WI
December 2, 1989	Stevens Point, WI
December 7, 1989	Milwaukee WI (MRAC)
<u>December 9, 1989</u>	<u>Appleton, WI</u>
December 16, 1989	Milwaukee, WI (BE)
January 3, 1990	Madison, WI
<u>January 3, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
<u>January 13, 1990</u>	<u>Eau Claire, WI</u>
<u>February 7, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
February 24, 1990	Madison, WI
<u>March 7, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
April 7, 1990	Madison, WI
<u>April 4, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
<u>April 14, 1990</u>	<u>Eau Claire, WI</u>
<u>May 2, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
<u>June 6, 1990</u>	<u>Milwaukee, WI (MRAC)</u>
<u>July 13-14, 1990</u>	<u>Eau Claire, WI</u>
<u>September 13, 1990</u>	<u>Eau Claire, WI</u>
Monthly, First Sat.	Racine, WI
(except January, July & August)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	
Monthly, Third Sat.	Loves Park, IL
Minnesota tests listed at end of column	

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

APPLETON, WI - Dec. 9, 1989

Fox Cities ARC will be testing at 9:00 at the Roosevelt Jr. High School, 318 East Bruster St. Appleton, WI. Walk-ins are welcome. Contact: Heln F. Borree, WD9CYW, 1095 Have Ave., Menasha, WI 54952.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

Dec. 7, 1989. 1990 examination dates:

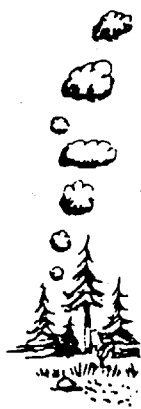
BADGER STATE SMOKE SIGNALS

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ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebnetter, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebnetter, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or by any other organization.

SUBSCRIPTIONS

1 year	(12 issues)	\$8.50
2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

Jan. 3; Feb. 7; Mar. 7; Apr. 4; May 2; June 6.

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, north 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring along your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required. Register in advance on a 15 cent U.S. post card; print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

December 16, 1989

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

EAU CLAIRE, WI

Tests will be given on the following dates: January 13, April 14, July 13 and 14, and September 13, 1990

The January, April and September examinations will be given at the Facilities Management Building, The University of Wisconsin, Eau Claire Campus. The July Examinations will be held in conjunction with our Hamfest at the Eau Claire Junior Fair Grounds.

MADISON WI - ARRL/VEC

December 2, 1989 - January 3 1990 - February 24, 1990 - April 7, 1990 (MARA swapfest)

All exams will be held at Fire Station No. 2, 421 Grand Canyon Dr., with the exception of the April 7 date, which will be announced later.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

Tomahawk, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Loves Park, IL

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

Send your exam information to Ken Ebner, K9EN, 822 Wauona Tr., Portage, WI 53901.

PACKET RADIO: QUAKE HERO!

Long-haul San Francisco earthquake health and welfare traffic flowed smoothly, even with intentional jamming to nets, says Northern California Packet Radio Association President Lou Jenkins, N6VV, of Pleasant Hill. According to Jenkins, here it was digital rather than analog communications that prevailed within hours of the disaster: "There is no question in my mind, based upon this last week, that the most effective delivery channel for health and welfare traffic - not 'tactical' information but only 'health and welfare' traffic - was the digital form. We had it coming in on AMTOR (and) on packet via HF nets. The fact was that it could be easily warehoused in the devastated area and then be worked (delivered) at the convenience of the folks there."

Jenkins added that the ability to "digipeat" by every Ham running packet offered many advantages over conventional voice repeaters where traffic is going via VHF and UHF routes: "No other mode gave that form of audit trail and track-ability. And, the adaptive nature of the networks, not being reliant on one repeater (was significant). We lost one of our major nodes down at Crystal Peak, so we switched (around the problem) by bringing up additional nodes and we were able to create a new path into areas where we needed to get traffic (through)."

One of the long-running bones of contention between digital and analog Amateur communications has been the self-imposed isolation between the two. In California, digital folks and analog folks have been worlds apart by their own choice. This reporter has heard that the same is true in other geographic regions also. To try to remedy this, the ARRL last year asked repeater coordinators to take on packet and digipeater coordination. Many have declined to do so, leading to even further separation of the analog and digital Amateur communications worlds.

In California, this seclusion ended when the quake began to rumble. N6VV seems to feel things have changed: "The combination of both the automatic routing capability of packet in combination with the appropriate use of the FM networks - the two working hand in hand - (made it function). When we got word (via packet) of emergency relief supplies that had been made available, that came in through Los Angeles. The first thing we did was to get on 2 meters (FM voice) and contact the EOC (Emergency Operations Center) in Santa Cruz, and passed that traffic on the Loma Prieta machine.... Meanwhile, 'health and welfare' traffic was flowing (on packet) all the time that the (voice) conversation was going on."

But there were some reports of packet-oriented Hams being a bit over-zealous about

proving the importance of their favorite mode at a time when they should have only been worrying about getting messages through. Several apparently showed up at disaster coordination sites and on city streets armed with radios and TNCs, but no microphones. They insisted that packet was better than voice for "tactical" Amateur Radio communications from the scene, much to the dismay of officials in charge. Jenkins thinks this was a pretty bad idea: "I think the general reaction up here about talking keyboard to keyboard in an emergency situation was not that effective." There may be some isolated cases where we will see that it worked, but what we did was to try to get some people with portable packet gear into the affected areas to take 'health and welfare' outbound traffic...."

Much of the long haul traffic was handled using digital communication technology on the high frequency bands. Like its SSB voice counterpart, packet and allied modes were not exempt from the ridicule of the lunatic fringe of Ham Radio. Virtually all HF sideband nets involved in earthquake emergency relief efforts suffered severe malicious interference. Fran Collins (N6ATF), of the Veterans Administration Hospital in Los Angeles, described the interference as "organized," and Jenkins agreed. According to N6VV, the jamming stations were quite knowledgeable about where the packet nets were and those causing the interference tried to use RTTY to keep packet messages from being delivered: "There was heavy jamming on 15 meters from RTTY. I could tell (it was jamming) because they were not there until one of the packet stations would key up trying to get some health and welfare in: a tone, not conversation but just a series of RYs, mark and space, back and forth on top of the channel." Jenkins added that the attempt at malicious interference was completely unsuccessful: "The nice thing about the packet environment is that it retries, so when they tried to jam it, as long as we were there watching it, the system continued to operate, and ultimately, all of the traffic got through. Despite the heavy jamming, the packet (system) continued to work."

The number of health and welfare messages handled via packet is believed to be in the tens of thousands. Return traffic is still outbound, as of this writing. The same cannot be said about CW, which, it appears, was constrained to use in the ARRL's National Traffic System. According to the League, the NTS advised that "welfare inquiry traffic be routed via normal paths." Priority in health and welfare traffic handled by the NTS was given to messages originating from the areas of greatest devastation, with an advisory from the NTS for the public to try to use the public telephone before attempting an inquiry via Amateur Radio - something contrary to what disaster relief officials and the telephone company were advising the public. It is unknown if the NTS put out the advisory because it was unable to handle the traffic load with slow (manual) data rates and insufficient operators, or because NTS directors were unaware of the chaotic situation regarding telephone service. All things considered, packet and voice appeared to provide the majority of traffic paths, with CW fading far behind.

- The Westlink Report, 11/10/89

Wisconsin Nets Association Ltd.

WISCONSIN NETS

Net	WNA	Freq.	UTC	CST	Manager
BWN	Yes	3984	1200	0600	KC9CJ
BEN	Yes	3985	1800	1200	WA9W
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	2400	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
6:30 Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1815	1215	WC9AAG
			USB Tues. and Thurs.		
RACES	No	3993.5	1400	0800	WA9OAY
			LSB Sunday		

Section Manager's

notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



New officers of ManCoRad Club are:
Pres. WB9ESM, V. Pres. NZ9Z, Dec. KA9-CPR, Treas. KA9ZTF.

Officers of Namekagon Valley Wireless Association: Pres. KD9FC, V. Pres. N9ETR, Sec./Treas. N9ETE; they have quarterly meetings the third or fourth Monday of month in Meeting room of Hardee's in Hayward at 7 p.m.

The 150-foot tower with new antennas is up for N9EGE/R 444.85 voice repeater and KD9FC-1 packet radio digital node.

On January 3rd, the Four Lakes ARC will hold exams 8 a.m. at Fire Station, 421 Grand Canyon Drive, Madison.

West Allis RAC Midwinter Swapfest January 13th, 8 a.m. at Waukesha County Exposition Center Forum, Highways J and FT, having exams, a packet radio meeting, and free coffee and donuts before 9 a.m.

The Novice Roundup begins at the end of January; help Novices in your town to get on the air and have some fun.

Central Wisconsin Radio Amateurs have KA9LAQ working on club station changes; will have banquet in January, ask KA9FAS for details.

If present trends continue, Technician licensees will soon outnumber the Generals.

K9CAN worked 100 countries in one weekend on 10 meters during the CQ-WW contest.

N9IQT gave nice talk and showed slides to Milwaukee Repeater Club about his career of flying 727s as First Officer.

KC9CJ will be presenting 50-year ARRL affiliation award to Green Bay Mike & Key Club on December 4th.

Computer Systems for Handicapped Being Tested at UW/Eau Claire

Persons with physical, visual, or speech impairments may find computers practical and user-friendly, thanks to equipment and procedures being tested at the University of Wisconsin - Eau Claire.

A Massachusetts firm has selected the communication disorders department at UW - Eau Claire as one of about ten test sites for IBM - compatible switching gear. The equipment, according to Dr. Thomas King (WF9I), enables a person with limited physical capabilities, for example, to use Morse code to "key-board" a variety of computer programs, such as correspondence, spread sheets, and graphics.

"With this program, a person who normally couldn't use a keyboard can be equipped with a special switch which acts like a Morse code telegraph key," said King, a speech-language pathologist who supervises UW - Eau Claire's Augmentative Communication Clinic.

He said eyebrow, toe, tongue, and other specialized switches enable users to More code keystrokes directly to IBM PC, XT, AT, PS/2, and compatible computers and access software for the MS-DOS system.

"Using the IBM, the user can run any software -- WordPerfect, Lotus 1-2-3, and others -- but the link is made from a keyboard emulator, not the keyboard it-

self," King said.

A Ham Radio operator and licensed examiner for the Federal Communications Commission, King said many clients need only about 10 hours to master basic Morse code.

"A person soon can input at speeds ranging from 40 to 70 words per minute," he added. "That's darned competitive with keyboard entry of computer data."

King said Microsystems Software, Inc., of Farmington, Mass., which is sponsoring the pilot project, offers "adaptive access software" for persons with physical, visual, and speech impairments. The company's Morse code program retails for about \$300.00, he added.

For more information about the pilot program, contact King through UW - Eau Claire's communication disorders department at (715) 836-4186.

- UW-Eau Claire news release

(Thomas W. King, Ed.D., CCC-SLP, is Speech-Language Pathologist and Supervisor/Assistant Professor, Department of Communication Disorders at UW - Eau Claire. He is also WF9I. His department's address is 121 Allied Health Center, UW - Eau Claire, 54702. Some of the software for the impaired is described in the "New Products" section of this issue of Badger State Smoke Signals; see page 14)

The Friendly Fest examiners counted 29 candidates during the test session.

December 9th in Rock River Radio Club's Christmas Party at Rhodes Wooden Wheel Restaurant in Beaver Dam.

K9JPS fell off dam into river while checking spillway gate and was bruised; he is out of hospital and recovering now. He is an NCS on weather net, but can't get down steps right now to get on HF.

Send me a list of your events for 1990 soon.

May Christmas
bring you...the warmth
of friendship and love

R F GYMNASTICS



BADGER STATE SMOKE SIGNALS



HERE and THERE

THIRD-PARTY AGREEMENT WITH MICRONESIA: On October 12, the U.S. and the Federated States of Micronesia (V63) entered into an Amateur Radio third-party traffic agreement. This agreement allows radio amateurs in both countries to relay personal messages on behalf of nonamateurs. The agreement also says that if public telecommunications services are not readily available in the event of disaster, communications relating directly to the safety of life or property may be handled by amateur stations in the two countries. Commercial messages or conversations are strictly prohibited under the agreement.

- The ARRL Letter

:-----:

QST! Have you had a very interesting experience in your Ham Radio career which the general public would enjoy reading? Lenore Jensen, W6NAZ, is compiling a book of rescues, coincidences, amusing experiences, etc. (nothing technical) - things that have happened either on the air or because of Ham Radio. Your anecdote is welcome for the book, Inside Amateur Radio.

Proceeds from sales of the book will go to the ARRL Foundation, so this is a cooperative project. Just jot down the facts, and send them to Lenore Jensen, W6NAZ, 14867 Round Valley Drive, Sherman Oaks, CA 91403.

:-----:

BROWSING THROUGH THE CALL-BOOK the other day revealed an interesting fact: Sue Simpson, WB9EWP (formerly Sue Anderson), and her brother Rick Anderson, WB9EWQ, both live in Sumner - Sue in Sumner, Maine, and Rick in Sumner, Washington. Sue and Rick are daughter and son of Phil (W9TP) and Joan Anderson of Baraboo.

The third Anderson offspring, Steve, WD9ESA, is working toward his Ph.D. in classic literature at the University of Texas in Austin, TX.

:-----:

ATTENTION CONTESTERS: Many Amateurs have been confused by Part 97.119(a) of the new Part 97 concerning station identification. This rule states, in part, "...No station may transmit unidentified communications or signals, or transmit as the station call sign, any call sign not authorized to the station." ARRL asked FCC for a clarification of this. The Personal Radio Branch (which governs Amateur Radio) of the FCC has okayed the following interpretation:

When another Amateur comes over to your house to operate your station, there are two possible station identification situations:

First, you may designate him as the control operator of your station. Accordingly, he must identify with your station's call sign when operating within the privi-

leges of both his license and yours. (He signs his call following your call when he operates with privileges that exceed yours.) You both share responsibility for the station operation as outlined above.

Second, you may simply "loan" your equipment to your friend. The equipment in your shack then becomes his temporary station location. He is the station licensee and control operator. Remember, a station is any place you can have radio equipment - a basement, car, or specific geographic location. In this case, he identifies with his own station call sign, and is solely responsible for the operation of the station.

Often, Hams will travel to another, more effective station to snag a rare DX country through a pileup, or work a contest, and want to use their own call sign for DX or contest credit. This is fine under situation two described above.

- The ARRL Letter

:-----:

HAM OF THE YEAR: The end of the year is when many clubs choose a Radio Amateur for special recognition as the "Ham of the Year" for meritorious service and dedication to the hobby. If your club is among those who present such an award, why not take some photos of the presentation and send them to Badger State Smoke Signals? Be sure to also send a short story, telling how your Ham of the Year qualified for his/her award. Send the info to Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Please note that photos may be black and white or color, and are not normally returned.

:-----:

SPECIAL EVENT STATION W9JZ will be operated from Sun Prairie, Wisconsin, (The Groundhog Capital of the World) on February 2 and 3, 1990. Full info in next month's Badger State Smoke Signals.

:-----:

KURT'S HOME! Kurt Silber, KB9MQ, who was badly injured in an auto accident several months ago, went home from St. Agnes Hospital in Fond du Lac on November 9, after almost three months in the hospital (that was 4 to 6 weeks earlier than expected). Kurt, who lives in Ripon, welcomes visitors during morning hours, and will probably be in his shack, operat-

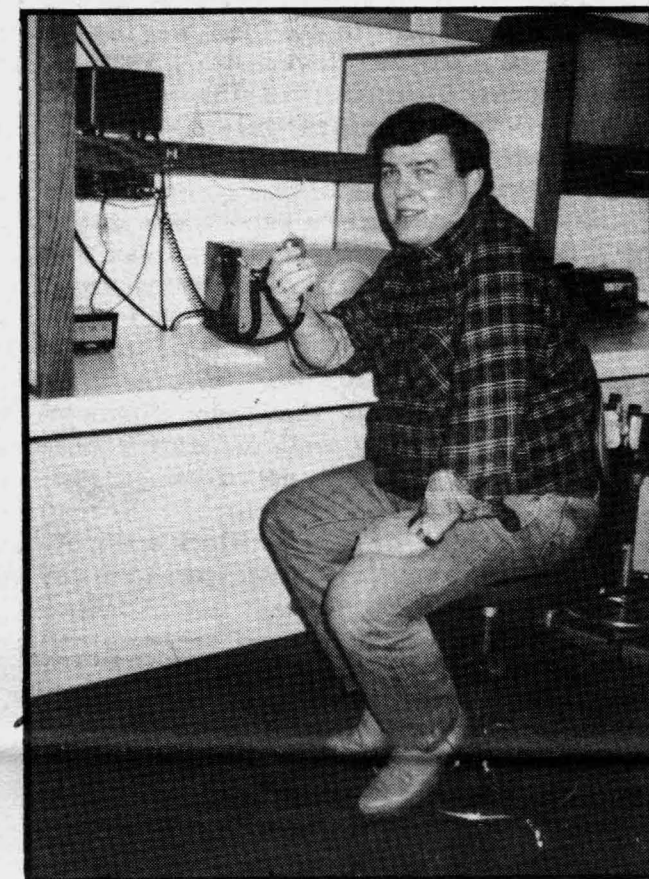
ing AMTOR, packet, or 2-meter FM when you arrive.

- Adapted from Foxtales, Green Fox Amateur Radio Club

:-----:

NO TREK FOR MARK: Mark Ferguson, KA9WSN, who we announced would be taking part in a bike trek for the American Lung Association, tells us in a note that he wasn't able to make the trek, due to a job change. He had planned to ride the new trek route from Washington state to southern California.

:-----:



IN THE ABOVE PHOTO is Jake Kitzinger, N9ITN, of Sun Prairie. The picture was taken at the 2-meter operating position of the club station of the Four Lakes Amateur Radio Club, of the Madison area. The station, located at Red Cross Headquarters on Madison's west side, also has an HF operating position, and a Red Cross radio. FLARC meets at the Red Cross Building on the first and third Tuesdays of each month at 7:30 p.m., with an occasional exception. Visitors are welcome.

- Photo by Jim Romelfanger, K9ZZ

BADGER STATE Smoke Signals For Radio Amateurs • By Radio Amateurs

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3 years (36 issues) \$23.00 (save \$2.50)

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Please send check or money order to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337.

PLEASE PRINT

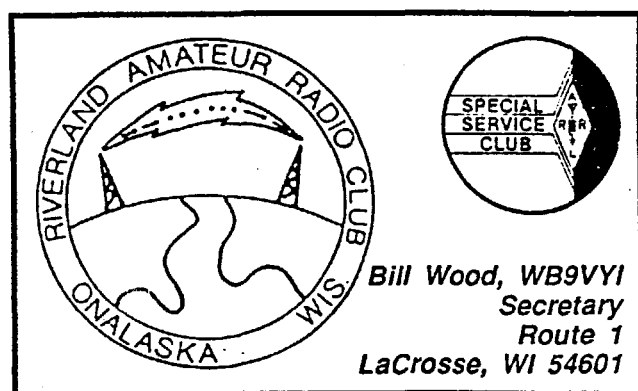
8912

Name: _____ Call (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 year ☐ 2 years ☐ 3 years

☐ new ☐ renewal



Greetings.

The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. November 7, 1989, by our president, Dick Low, KØJYB.

The October minutes were then called for, and approved as read, from the Badger State Smoke Signals.

Next, the treasurer's report was called for and presented. Special notice was given to the fact that our anonymous donor fulfilled his commitment, made last summer, of matching any \$50 or more toward a goal of \$2000 for our new repeater. With this last gift of \$238, the club's financial situation seems fairly well off at the present. The report stood approved as presented.

Dick announced Glen Whitlock's departure from our midst; NØBBW passed away this last week, from a heart attack. Another good man we've enjoyed knowing and working with, and now we'll miss.

Van Elston, WA9FIO; Gary Webb, NI9V; and Bill Myers (a potential Ham) are still looking into our spurious signal source. The signal, we know, has been identified, etc., and communications are in progress, seeking remedies for solving the interference problem. Van gave us a promising progress report, noting his regular friendly checkups with these people has almost resulted in a first-name basis already, and they want to clean up almost as much as we want them to. Thanks again, gentlemen.

Craig Goldbeck, N9ETD, and Tom Speropulos, N9IGS, brought to our attention that there has, the last two weeks, been

some de-sensing of fringe area signals that seemed to coincide with the digipeater's activities, and asked that the technical committee would look into this.

Dick then presented Karl Olberg, W4ST and Charlie Burch, KA9UUK, and their findings for the proposed Christmas party. The New Villa and Christopher's were discussed and compared. Charlie made, and Karl seconded, a motion to choose Christopher's, and it passed unanimously. Saturday night, January 13, at the Valley View Mall, entrance #3, by Radio Shack. The time is not set yet; possibly 7-ish?

Dick told us that Al, N9FZE, left the club in his will, and an attorney contacted him with some of the particulars, and seeking some information also. He wanted us to have all his radio equipment, tower, antennas, etc. Discussion was then made around our responsibilities and wants. Should we auction off the equipment, just sell it, donate it, or start up a club station? Various ideas were batted around as food for thought. Hopefully, during our next meeting, we will have a better understanding of the situation at hand, our prospective goals, and responsibilities. (We should make lists of pros and cons for any of these directions we choose.)

Rick Williams, KV9U, announced the next examinations coming up in December, and only has 3 signed up so far. Please get together with Rick if you are looking forward to taking advantage of this opportunity.

Charlie reminded us that elections for club officers will be taking place in January, and now would be a good time for forming a nominating committee to present their suggestions at our December meeting. Craig and Tom will be the ones to present their slates next meeting. (We will also be taking nominations from the floor at that time.)

Craig suggested this would also be a good time for the treasurer to present a proposed budget for next year, to help establish a proper amount to set for dues for the year.

George Kroner, KE9PL, made, and

Rick seconded, the motion to adjourn, and all were in favor.

Dan McKenzie, WCØV, presented the program for the evening, on the subject of cellular phones. With half a dozen examples of equipment available, history, different systems, how they work, frequencies, expenses, and a sophisticated piece of test equipment to demonstrate, we had a good time, and learned a few things. Thanks, Dan.

MEMBERS AND GUESTS PRESENT

Bill Kleinschmidt	N9FDE
Van Elston	WA9FIO
Luis Felipe Reyes	HJ5PDD/W
Craig Goldbeck	N9ETD
Walter Altus	WD9GCR
Dick Low	KØJYB
Harlan and Phyllis Steilier	
Rick Williams	KV9U
Fred Sorenson	NØHRN
George Kroner	KE9PL
Bill Wood	WB9VYI
Lisa Altus	
Charlie Burch	KA9UUK
Charles A. Ferries	W9TCW
Arby Boomer	WF9T
Phil Uehling	W9UP
Tom Gromacki	KB9BIS
Joe Mezers	WA9SOQ
Karl E. Simonson	
Bob Selbrede	KA9EZR
Karl Olberg	W4ST
Art Osborn	WØJDC
Ernie Gershon	K9ZVU
Ralph Jahimiak	WA9OAE
Ron Reed	KD9OY
Nook Bentzen	K9EGO
Dallas C. Miller	K9LEC
Tom Speropulos	N9IGS
Dan McKenzie	WCØV
Larry Kapp	KB9DER

Respectfully submitted:

Bill Wood, Sec./Treas. RARC

Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the Eau Claire Amateur Radio Club will be held on Tuesday, December 12th, at the American Legion Hall on Water Street. The meeting will be held in conjunction with our annual Christmas Party.

MINUTES OF THE NOVEMBER MEETING

The meeting was called to order at

7:30 p.m. by President Jerry Marx, NG9A. Thirty two visitors and members were present.

Jerry, NG9A, has received a request that we provide communications for the running of the "Frigid Eight", to be held on December 2nd at 1 p.m. Bill, W9NNS, will coordinate. If you are interested in helping, call Bill.

We have received a letter from the L.E. Phillips Rehabilitation Center at Sacred Heart Hospital, requesting that we continue our project there. We have had an operating station there for the last four years, and have demonstrated Amateur Radio monthly to persons undergoing rehabilitation. Don Franzman, W9NFJ; Gordy Englund, N9FLN; and Baldwin Hallaway, WØJD, have been doing most of the activity lately. Anyone interested in getting involved with this project should call any one of

them.

Our program for January will be on Cellular Radiotelephone. Jim Rassbach will be the speaker.

Our visit to Video Monitors, originally scheduled for November, is now scheduled for February.

All members are reminded that our next meeting will be held on December 12th at the American Legion Hall on Water Street, in conjunction with our annual Christmas Party. All members and other area Hams are invited to join us. Just bring eating utensils and a dish to pass. We will hold our election at that time. The following slate of officers will be presented for your consideration:

President: Bill Jablonske, W9NNS
Vice-President: Jerry Marx, NG9A

(Please turn to page 16)

Repeater Profiles



By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

EAU CLAIRE/K9UXP/R/146.91

After thirteen and a half years as a Ham, and almost two years of repeater profiles, I've come to the conclusion that repeaters have something in common with snowflakes: no two are exactly alike. Although some repeaters may have similarities, the inventiveness and ingenuity of different clubs seems to prevent them from being clones of one another.

The two-meter repeater operated by the Eau Claire Amateur Radio Club evolved from a homebrew setup at the W9GDW QTH to a Motorola receiver connected to a GE transmitter with a homebrew IDer be-

fore being replaced with a Spectrum Communications SCR1000 in 1981. However, the old Motorola and GE equipment didn't go off to the radio graveyard; they now serve as a backup repeater in case the SCR1000 is taken off the air for maintenance.

On the technical side, the Eau Claire repeater uses an input frequency of 146.31 MHz, with an output frequency of 146.91 MHz. A Stationmaster antenna 900 feet above ground provides very good coverage, while a Wacom duplexer separates the received and transmitted signals. In case of a power failure, batteries provide emer-

gency power. The repeater uses carrier access, and you don't need subaudible tone or tone burst to use this machine. The technical crew keeping this repeater on the air includes W9BAR, W9GDW, WB9ULA, KB9R, and K9UXP (the trustee).

Annual dues in the Eau Claire Amateur Radio Club are \$15.00. For more information about the club or the repeater, contact Bob Fallis, W9BAR, Secretary, 1851 McKinley Road, Eau Claire, WI 54703.

More photos of K9UXP/R are on page 16 of this issue.

73,

John

ALL ROADS LEAD TO



SWAPFEST

Sponsored By The West Allis Radio Amateur Club, Inc.

SATURDAY, JANUARY 13, 1990

8:00 AM - 3:00 PM

WAUKESHA CO. EXPOSITION CENTER FORUM

HIGHWAYS J & FT

WAUKESHA, WISCONSIN

- o ADMISSION: \$2.00 Advance - \$3.00 At Door
- o RESERVED TABLES: First Single 4 Ft. Space \$3.00 - At Door \$4.00
Additional 4 Ft. Space \$4.00 - At Door \$5.00 (As Available)
(Example: 8 Ft. \$7.00 - At Door \$9.00)
- o ELECTRICAL OUTLET: \$5.00 (If Available)
- o FREE COFFEE AND DONUTS Until 9:00 AM
- o FOOD AND REFRESHMENTS At Our Usual Low Prices
- o AMATEUR EXAMS Administered by Milwaukee Area Test Team Begin 9:00 AM
(Exams at Red Carpet Lanes Across Street From Expo Center)
- o PACKET RADIO MEETING
- o RESERVATION DEADLINE January 5, 1990 - Order Early

The West Allis Radio Amateur Club, Inc. proudly sponsors the Wisconsin QSO Party and the WARAC Memorial Scholarships, available exclusively to Wisconsin Amateurs.

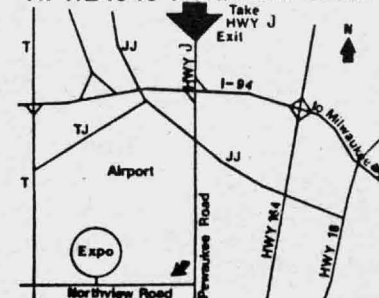
- ___ Admission Tickets at \$2.00 Each
- ___ Table Reservations at \$3.00/First 4 Ft.
\$4.00/Additional 4 Ft.
- ___ Electrical Outlet \$5.00 (If Available)
- ___ Amateur Exam Information

Name _____
Street _____
City _____ State _____ Zip _____
Phone _____

Mail with S.A.S.E. to:

WARAC SWAPFEST
P. O. BOX 1072
MILWAUKEE, WISCONSIN 53201

Waukesha Exposition Center
N1 W24848 Northview Road



The primary repeater at K9UXP/R is a Spectrum Communications SCR1000. The Wacom duplexer is visible below the repeater.

The Communicator

News of Greater Taylor County Area Amateur Radio Events and Activities

Mike Schoenfuss, N9GHZ, Editor, P.O. Box 401, Abbotsford, WI 54405 • Phone (715) 223-3996

MONTHLY CLUB MEETING - TAYLOR COUNTY AREA AMATEUR RADIO CLUB

Thursday, December 14th. Location: Emergency Government meeting room, basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, Wisconsin. The meeting starts at 7 p.m.

AGENDA AND PROGRAM FOR DECEMBER MEETING: A follow-up on Amateur Radio communications for the annual Abbotsford Christmas Parade will be presented. Also, progress reports on the W9QHL/R repeater and WIMED/N9GHZ-1 packet node projects.

A major project involving Amateur Radio with the White Pines District Spring Boy Scout Camporee, to be held in Gilman, Wis., in the spring of 1990, will also be discussed.

Following the business meeting, another segment of a videotape on Amateur Television (ATV) will be shown, if time permits.

N9GHZ will also be bringing some home-made Christmas cookies along to the meeting.

CLUB NEWS

Attendance at the November meeting was as follows: W9LEE, KA9WDX, KB9BLV, KE4FE, N9GEN, KA9UXN, N9FZD, WD9ITI, N9GHZ, WD9ASX, W9QHL, and WD9FWP. Treasurer WD9FWP reported receiving the \$25.00 payment from the sale of the old repeater antenna (i.e., Cushcraft Ringo Ranger), which was the only change in the balance in the treasury from the last reported balance.

Following adjournment of the meeting, a segment of the videotape on Amateur Television (ATV) was shown.

All club members are reminded that the annual election of club officers will be held at the January, 1990 club meeting, and that 1990 club/repeater dues will again be due. The following is a list of those who already have their 1990 dues paid: N9FZD, WD9C, N9GEN, W9LEE, WD9ASX, KB9BLV, KA9WDX, KA9WDC, WD9FWP, KE9LX, N9IDW, N9GHZ, WA9YCT, KE4FE, KB9AMZ, KA9UXN, N9FZS, KA9SMQ, and W9QHL.

A new roster of Taylor County Area Amateur Radio operators should be coming out during the early part of 1990.

N9GHZ received a letter from the ARRL Foundation, dated 11/10/89, indicating that he was not eligible for a grant to cover all or part of the costs of recent donations of Amateur Radio materials to area public and high school libraries.

TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

From Mike Schoenfuss, N9GHZ
Taylor/Clark County ARES
Emergency Coordinator

Don't forget to try to check into the weekly ARES net, held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/-147.15). You're also encouraged to volunteer for net control duty for the net.

N9GHZ sent out a mailing on Nov. 15 and 16 to all Taylor County area Amateur Radio operators, with information on Amateur Radio communications operations for the annual Abbotsford Christmas Parade. The date of this year's parade is December 2nd.

A follow-up report on the communications operations will be made at the December club meeting, and will also be published in the January, 1990 issue of this newsletter.

A "new wrinkle" in this year's operations will be an attempt to incorporate Amateur Television (ATV) into the parade. On the recommendation of the parade chairman, we will attempt to feed a video and audio signal from the parade over to the local nursing home, so that the residents there who cannot attend the parade will not miss out on it. The transmission will be live. The nursing home has a master antenna system, so we will be able to feed the signal not only to the large TV set in the main lounge, but also to those residents who have their own personal TV sets in their rooms. This project is being done with the cooperation and assistance of several Wausau area Hams, including AD9W and N9IAB.

147.75/15 MEDFORD REPEATER (W9QHL/R)

W9LEE went to the repeater site recently and tightened up the squelch on the receiver, which appears to have solved the problem of the repeater remaining keyed up and timing itself out. The problem first showed up when the outside temperature started dropping in late October.

N9GHZ recently spoke with K9ZVZ, who operates a repeater at Fall Creek, Wis. His repeater, like ours, is also located in an unheated outdoor shed. He has used a Honeywell mercury thermostat, capable of handling 110+ volts, connected to two 40-watt light bulbs in series, to keep his repeater system warm through the winter. He reports that this particular configuration reduces current drain, and the bulbs will last him throughout a winter. He also has

crystal ovens on both the repeater receiver and transmitter, and a muffin fan mounted in the repeater cabinet is running year-around. We should probably give some serious consideration to incorporating some of these ideas into our own repeater system.

The RFI problem, from an as of yet unidentified source, is still present. It manifests itself as a loud buzzing noise, lasting from less than a second to several seconds in duration, at random intervals throughout the day and into the early evening hours.

Both the 146.22/82 and 147.66/06 repeaters, located near Wausau, and both in high RF environments, incorporate the Motorola Radius transceiver for either a repeater receiver, transmitter, or both. In terms of receiver use, it has virtually eliminated RFI problems to these repeaters, while at the same time vastly improving the reception of incoming signals to the repeaters. The Taylor County club has been offered the loan of a pair of these radios, at no charge, to see what they will do for us, and members should give some serious thought to accepting the offer by taking a vote at the December club meeting.

No additional work has been done to transfer the repeater from its present repeater cabinet into the new cabinet presently located at W9LEE's residence. The duplexer presently in use on the repeater will not fit into the present cabinet. WA9ZCO has recently provided some automatic electric heating tape and a "print pocket," to hold the repeater manuals and documentation in, which could be incorporated into the new repeater cabinet configuration. The items are presently in the possession of N9GHZ.

144.67/145.27 DORCHESTER REPEATER (WA9ZCO/R)

A reminder to all that the RAIN Dial-Up Service weekly Amateur Radio news bulletin can be heard on this repeater every Wednesday evening at 8 p.m.

N9GHZ-1 (WIMED) PACKET RADIO NODE

There have been no new developments in the work done on the node. It is still awaiting additional testing, to be done by WA9ZCO, including SWR, power output, and current drain checks with the RF amplifier turned on. It is still located at WA9ZCO's residence in Dorchester. When tests are complete and it is ready to be

(Please turn to page 13)

Northern Wisconsin Radio Club

—Since 1923—

Steve Kraft, KE9RW
Secretary
Rt. 7, Box 62
Menomonie, WI. 54751

The last meeting of the NWRC was called to order at 7:30 p.m. October 24, 1989, in the back room of the Peppermill Restaurant in the Thunderbird Mall, Menomonie. Steve, KE9RW, read the minutes of the last meeting, and Steve, KA9OMC, gave the treasurer's report; present bal-

ance: \$69.32. Gene, KA9RSD, moved to approve the reports, and Ernie, WØLUI, seconded.

Old business concerning the club was discussed. Our contacts with Badger State Smoke Signals have been made, and our members are receiving their newsletters. Steve, KA9OMC, has spoken to ARRL about our affiliation, and found out that we were affiliated with ARRL through 1974. To renew affiliation, we will need to produce a list of members, and insure that over 50% of them are ARRL members. Members of both NWRC and ARRL will then receive a reduction in cost of membership to ARRL. Still pending is a meeting with Lane, KD9OB. Bill, KA9GNG, moved to approve the report; Kathy, KA9-AHF, seconded.

The new business discussion was about the annual club auction. It was decided that the Tuesday prior to Mid Winter Madness would be best. The date for the auction is Feb. 20, 1990. More on this later. Melvin, KB9AGC, moved to approve the report, and Kathy, KB9AHF, seconded.

We regret to announce the passing of our Amateur friend, Clare Talen, W9LFC. Clare has been a big support to local Amateurs, and for many years was the net control for the Wooden Shoe Net.

Bob Fallis, W9BAR, talked about the 'earth shaking' experience his son and daughter went through in the California quake.

Steve Kraft, KE9RW, talked about the

(Please turn the page)

Wisconsin Repeater Directory

Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect existing repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator.

Nels Harvey, WA9J0B
Wisconsin Association of Repeaters
P.O. Box 23928
Milwaukee, WI 53223

O	Carrier Access	B	Burst
PL	Sub-Audible Continuous Tone	T	Touch-Tone
W	Whistle	C	Closed Private Repeater
A	Autopatch	(CA)	Closed Private Autopatch
E	Emergency Power	L	Link and/or Crossband
P	Portable	R	RACES Affiliated
Y	RTTY/ASCII	Z	Autopatch to Law Enforcement
PAC	Packet Data Exchange		

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A	North East - 1B	North West - 2Z
South Central - 3Z	South East - 3A	South West - 3B

Standard Inputs Unless Otherwise Noted

-600 KHz. below 147.00 MHz, +600 KHz. TO 148.00 MHz.
-1.6 MHz. for 220 MHz, and + 5 MHz. for 440 MHz.
421.25 MHz. TV Video + 18 MHz. 425.75 MHz. TV Aural, + 9 MHz.

Location	Rg	Output	Call	Access	Sponsor	* Up To Date
ALLENTON WI	SE	146.775	KA9HLP/R	O	HELPCOM	UC *
APPLETON WI	NE	145.150	K9DHR/R	O CA E Z	C L RPT G	*
APPLETON WI	NE	145.210	KB9IE/R	O PL	P GRNT RA	P
APPLETON WI	NE	145.330	WB9ANR/R	O PL1B	F V VHF A	*
APPLETON WI	NE	146.760	K9QOQ/R	O	F V VHF A	P
APPLETON WI	NE	224.500	KB9IE/R	O A L	KB9IE	*
APPLETON WI	NE	443.025	WB9IYV/R	C	WB9IYV	*
APPLETON WI	NE	443.650	W9DKY/R	O	W9DKY	P
BALDWIN WI	NW	145.130	K9HQC/R	O Z	ST.CR CD	*
BALDWIN WI	NW	147.330	K9HQC/R	O	ST.CR RA	*
BARABOO WI	SC	146.880	WA9WVE/R	O E	C W R A	*
BAYFIELD WI	NW	146.610	W9BCY/R	O	NLAND ARC	*
BEAVER DAM WI	SC	147.315	N9GGZ/R	O	N9GGZ	*
BELOIT WI	SC	146.670	WA9JTX/R	O	BELOIT AR	*
BELOIT WI	SC	224.300	WB9UBM/R	O A Z	C.B.S.RG	*
BERLIN WI	SC	443.850	N9A0Z/R	O A	N9A0Z	*
BURLINGTON WI	SE	146.745	W9IGV/R	O	H L H R G	*
BURLINGTON WI	SE	224.060	N9BBQ/R	O PL A E	SE WI ERS	*
CEDARBURG WI	SE	224.180	W9CQO/R	O	O.R.C.	*
CHIPPEWA FALLS WI	NW	146.880	WA9PAM/R	O	WA9PAM	*
CHIPPEWA FALLS WI	NW	444.350	WA9PAM/R	O O Z	WA9PAM	*
CRIVITZ WI	NC	145.470	KA9YQJ/R	O PL2A CA	KA9YQJ	*
CUDAHY WI	SE	29.680	N9BBG/R	O PL3A	W E R A	*
DELAFIELD WI	SE	146.620	W900W/R	O CA E	SEWFARS	*

Location	Rg	Output	Call	Access	Sponsor	* Up To Date
DELAFIELD WI	SE	444.125	WB9WHG/R	O E PL2A	SEWFARS	*
DORCHESTER WI	NC	145.270	WA9ZCO/R	O A E Z	WA9ZCO	*
EAGLE RIVER WI	NC	145.390	KD9PT/R	O E CA	KD9PT	*
EAU CLAIRE WI	NW	146.910	K9UXP/R	O A E X	E C ARC	*
EAU CLAIRE WI	NW	147.240	KA9ELD/R	O CA E	E C ARC	*
ELKHORN WI	SE	146.865	WA9AJW/R	O	W CO ARES	*
FALL CREEK WI	NW	145.470	K9ZVZ/R	O A	K9ZVZ	*
FOND DU LAC WI	NE	147.090	WD9ESH/R	O A E	FOND ARC	*
FOND DU LAC WI	NE	223.740	WA4COY/R	O B CA	WA4COY	*
FOND DU LAC WI	NE	444.150	WA4COY/R	O B A PL1B	WA4COY	*
FORT ATKINSON WI	SC	224.420	N9DTV/R	C	N9DTV	*
FRANKLIN WI	SE	444.625	K9WQG/R	PL 2A	K9WQG	*
FREEDOM WI	NE	224.220	AA9A/R	O	AA9A	*
FREMONT WI	NC	147.015	N9AOT/R	O	N9AOT	*
GERMANTOWN WI	SE	147.045	WB9EFP/R	C CA	WB9EFP	*
GREEN BAY WI	NE	147.120	K9GB/R	O CA	G B M&K	*
GREEN BAY WI	NE	147.270	KE9LZ/R	OPL1B CA E	NEWRL	*
GREEN BAY WI	NE	147.360	K9EAM/R	O CA	GB M&C	*
GREEN BAY WI	NE	223.940	WA9SXN/R	C	WA9SXN	*
GREEN BAY WI	NE	224.140	K290/R	O A E L	G B R USR	*
GREEN BAY WI	NE	443.500	K9EAM/R	O A	GB M&K	*
GREEN BAY WI	NE	443.750	N51IA/R	O CA	N51IA	*
GREEN BAY WI	NE	444.200	WB9VJV/A	C	WB9VJV	*
GREEN LAKE WI	SC	146.955	KB9WC/R	O	G FOX ARC	*
GREEN LAKE WI	SC	444.400	KB9WC/R	O	G FOX ARC	*
GREENDALE WI	SE	442.150	KD9Y/R	O	K.R.G.	*
GREENFIELD WI	SE	52.880	WB9WKR/R	O	GF'LD 6RS	*
GREENFIELD WI	SE	224.000	NZ9F/R	O A	NZ9F	*
HAYWARD WI	NW	147.210	W9DLY/R	O	W R ARC	*
HAYWARD WI	NW	444.850	N9EGE/R	O CA Z	N9EGE	*
HELENVILLE WI	SC	443.825	N9FIB/R	O	N9FIB	*
HERTEL/SPOONER WI	NW	147.300	WB9RAY/R	O A	B.A.R.S.	*
HERTEL/SPOONER WI	NW	224.500	WB9RAY/R	O A	B.A.R.S.	*
HERTEL/SPOONER WI	NW	443.500	WB9RAY/R	O A	B.A.R.S.	*
HILLSBORO WI	SW	145.370	WB9SBD/R	O	WB9SBD	*
HIXTON WI	SW	146.940	KC9YE/R	O	T-J RA	*
IRMA WI	NC	146.730	K9GTQ/R	O	K9GTQ	*
JANESVILLE WI	SC	145.450	WD9ACY/R	O A E	R A T SYS	*
JEFFERSON WI	SC	145.490	W9MQB/R	O	T-C ARC	*
JUNEAU WI	SC	146.640	W9TCH/R	OAEZ WX	ROCK R RC	*
KAUKAUNA WI	NE	444.450	ND9Z/R	O CA	ND9Z	*
KENOSHA WI	SE	224.800	WB9LST/R	O Z	WB9LST	*
KENOSHA/RACINE WI	SE	147.075	WA9YTH/R	O A E 3APL	WA9YTH	*
LA CROSSE WI	SW	145.230	N9ETD/R	O	FROUT ARC	*
LA CROSSE WI	SW	146.760	K9CUT/R	O	L C R ASC	*
LA CROSSE WI	SW	146.970	WA9HHM/R	O A E	RVRLNDARC ALSO MN	*
LA CROSSE WI	SW	147.210	N9BRA/R	O A	N9BRA	*
LA VALLE WI	SC	442.400	W9EBF/R	O PL3Z	W9EBF	*
LAC DU FLAMBEAU WI	NC	146.670	N9ADA/R	O PL	N9ADA	*
LODI WI	SC	147.225	K9EYY/R	O CA EPL2A	K9EYY	*
MADISON WI	SC	146.685	W9YT/R	O PL A	UW-B ARS	*
MADISON WI	SC	146.760	WB9AER/R	O B A E	M A R A	*
MADISON WI	SC	146.940	W9FZC/R	O	C W R A	*
MADISON WI	SC	147.150	WB9AER/R	O B A E	M A R A	*
MADISON WI	SC	223.820	WB9RSQ/R	O A	WB9RSQ	*
MADISON WI	SC	443.675	KD9UU/R	O PL A Z	KD9UU	*
MADISON WI	SC	444.000	KA9VDU/R	O E PL3Z	KA9VDU	*
MADISON WI	SC	444.500	WB9TAE/R	O PL E L	WB9TAE	*
MADISON WI	SC	444.775	NG9V/R	O PL2A	NG9V	*
MANITOWOC WI	NE	145.190	WB9MFB/R	O	WB9MFB	*
MANITOWOC WI	NE	146.610	W9DK/R	O A E	MANCORAD	*
MANITOWOC WI	NE	146.700	K9FWR/R	RTTY	K9FWR	PROP.
MANITOWOC WI	NE	147.030	WB9ESM/R	O A K	WB9ESM	*
MANITOWOC WI	NE	147.195	N9GHE/R	O	N9GHE	*

Northern Wisconsin Radio Club

(Continued from previous page)

power supply problem on the W0AIH Packet Repeater.

Jim Ley, NX9F, mentioned the Saturday Novice class at UW-Stout, 9:00 a.m., room 312, Harvey Hall.

The club welcomed Bill Bartko's, (N9-HNI) repeater to Menomonie. The frequency is 146.805/.205 MHz.

We will have a door prize at the Nov. 28 meeting.

There will be no meeting in December.

See you Jan. 23 at the Peppermill.

The meeting was then turned over to Rolin, KB9AER, and a program and video was presented on the Handi-Ham System.

The meeting adjourned at 8:30 p.m.

Steve Kraft, KE9RW, Secretary



EDITORIAL

BY *Jim Romelfanger* K9ZZ

This issue of Badger State Smoke Signals is the 240th "Smoke Signals" done under my editorship, beginning with "Yel-

low Thunder Smoke Signals." 20 years have flown by since that first humble mimeographed issue, but it somehow doesn't seem it was that long ago.

Many changes have taken place over those years, changes which there isn't room to discuss in this limited space. We'll talk more about them in our next issue, as we begin our second 20 years.

On the "Upcoming Article" front: Harv Hamer, K9YHO, is modifying his now-famous "Apartment Dweller" Antenna (see BSSS, November, 1989) to operate on the 30, 17, and 12 meter bands; we'll have that article in an upcoming issue. And there will be much more - stay tuned!

43 Jim, K9ZZ

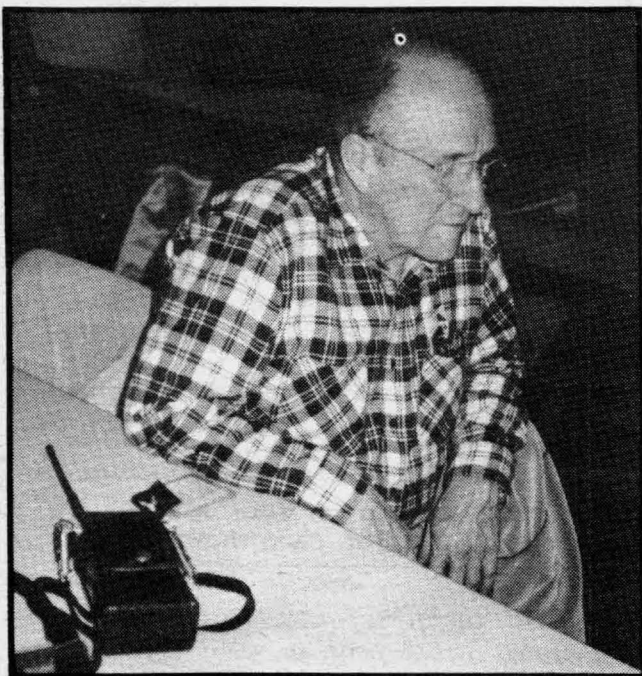
Location	Rg	Output	Call	Access	Sponsor	* Up To Date	Location	Rg	Output	Call	Access	Sponsor	* Up To Date
MANITOWOC WI	NE	224.540	N9GHE/R	O	N9GHE	*	PLYMOUTH WI	SE	224.940	KD9PE/R	O	SC 220 A	*
MANITOWOC WI	NE	443.975	N9GHE/R	O	N9GHE	*	PLYMOUTH WI	SE	444.350	WE9R/R	O PL2A	WERA	*
MARSHFIELD WI	NC	147.180	WD9ISN/R	OAE Z	MARSH ARS	*	PORT WASHINGTON WI	SE	146.970	W9CQO/R	O A PL E Z	ORC	*
MAUSTON WI	SC	146.850	W9EJD/R	O	ARC OF CW	*	POWERS LAKE WI	SE	443.925	KC9XN/R	O PL2A	L/K AMA SO	*
MEDFORD WI	NC	147.150	W9QHI/R	O E P WX	TAYLOR AR	*	RACINE WI	SE	147.270	W9UDU/R	OAEZIPR	L/S RP A	*
MENOMONIE WI	NW	146.610	W9WDK/R	O	R CDR RA	*	RACINE WI	SE	443.950	KA9JMK/R	O	KA9JMK	*
MENOMONIE WI	NW	146.805	N9HNI/R	O	N9HNI PROP.	*	RACINE WI	SE	444.050	KA9LOK/R	O	KA9LOK	*
MEQUON WI	SE	443.225	WD9DHI/R	O PL2A E	W E R A	*	RHINELANDER WI	NC	146.940	W9ZZZ/R	O A E	RHIN RP A	*
MILTON WI	SC	146.715	WD9FKW/R	O CA PL T	WD9FKW	*	RICE LAKE WI	NW	145.110	WA9CXN/R	O	WA9CXN	*
MILWAUKEE WI	SE	29.620	WB9ZRB/R	O	IND RP SYS	*	RICE LAKE WI	NW	147.030	WB9WFG/R	O E	BAR ARS	*
MILWAUKEE WI	SE	29.680	N9BBG/R	O PL3A	N9BBG	*	RICHLAND CENTER WI	SW	146.910	WB9SLI/R	O PL	P V RP A	*
MILWAUKEE WI	SE	53.030	WB9TRO/R	O E	W E R A	*	RUBICON WI	SC	145.350	WB9KPG/R	O A E Z	WB9KPG	*
MILWAUKEE WI	SE	52.680	WB9ZRB/R	O	IND RP SY 52.08 IN	*	SALEM WI	SE	223.720	N9BBQ/R	O A E L Z	N9BBQ	*
MILWAUKEE WI	SE	145.130	N9EGR/R	OAEZ PL4A	MAARS	*	SCHOFIELD WI	NC	145.230	WB9JGA/R	O	WB9JGA	*
MILWAUKEE WI	SE	145.170	W9FK/R	O CA	W A RAC	*	SHAWANO WI	NC	145.350	WA9BZW/R	O A	WA9BZW	*
MILWAUKEE WI	SE	145.230	NY9T/R	PL	NY9T	*	SHEBOYGAN WI	NE	145.110	KR9S/R	C	SHEB DX	*
MILWAUKEE WI	SE	145.250	WB9JBF/R	O	WB9JBF	*	SHEBOYGAN WI	NE	147.060	W9RF/R	O CA	SHEB ARC	*
MILWAUKEE WI	SE	145.390	WA0AFB/R	O PL3A	WA0AFB	PROP.	SISTER BAY WI	NE	147.180	W9QBJ/R	O	WA9PFQ	*
MILWAUKEE WI	SE	146.625	WB9ZRB/R	O	WB9ZRB	*	SLINGER WI	SE	146.730	W9MQD/R	O	WA CO RG	*
MILWAUKEE WI	SE	146.670	W9WK/R	Z	ARES	*	STEVENS POINT WI	NC	146.670	WB9QFW/R	O A E Z	CNT WI RA	*
MILWAUKEE WI	SE	146.790	W9HHX/R	O A PL	MSOE ARC	*	STEVENS POINT WI	NC	146.985	W9NN/R	O	CNT WI RA	*
MILWAUKEE WI	SE	146.850	W9KHO/R	O PL3A CA	MICORS	*	STEVENS POINT WI	NC	443.950	K9MIF/R	O	K9MIF	*
MILWAUKEE WI	SE	146.910	WA9JOB/R	O E Z PL3A	MRC	*	STOUGHTON WI	NW	421.250	N9BXA/R	O VIDEO	N9BXA	*
MILWAUKEE WI	SE	147.000	W9PY/R	O PL2B	P.R.C.	*	STURGEON BAY WI	NE	146.730	WB9YUY/R	O PL	WA9PFQ	*
MILWAUKEE WI	SE	147.105	K9IFF/R	C CA	K9IFF	*	STURGEON BAY WI	NE	147.210	W9AIQ/R	OB1800CAE	DOOR E G	*
MILWAUKEE WI	SE	147.165	KA9UOP/R	O	KA9UOP	*	STURGEON BAY WI	NE	444.000	WB9YUY/R	O	WB9YUY	*
MILWAUKEE WI	SE	147.330	N9EDL/R	O A PL2A	N9EDL	*	STURTEVANT WI	SE	29.640	WA9ZYU/R	O	WA9ZYU	*
MILWAUKEE WI	SE	223.860	WB9UOS/R	O A E	WB9UOS	*	STURTEVANT WI	SE	224.740	WA9ZYU/R	O A	WA9ZYU	*
MILWAUKEE WI	SE	224.680	WD9ABR/R	O PL CA	WD9ABR	*	SULLIVAN WI	SC	147.255	WA9VEU/R	O PL	WA9VEU	*
MILWAUKEE WI	SE	224.720	W9KHO/R	O CA PL2A	MICORS	*	SUPERIOR WI	NW	146.760	W9BWK/R	O	T P A RA	*
MILWAUKEE WI	SE	224.900	NK9G/R	O CA E	NK9G	*	SUPERIOR WI	NW	146.820	WA9VDW/R	O PL A	T P A RA	*
MILWAUKEE WI	SE	224.960	WB9TYT/R	O CA PL2A	WB9TYT	*	SUPERIOR WI	NW	444.900	WA9KLM/R	O A TT	WITC ARC	*
MILWAUKEE WI	SE	442.850	WA0POD/R	O PL A	WA0POD	*	SUPERIOR WI	NW	444.900	WA9KLM/R	O A TT	WITC ARC	*
MILWAUKEE WI	SE	443.150	W9KHO/R	O PL2A	MICORS	*	TOMAH WI	SW	145.390	N9BOE/R	O A E Z	N9BOE	P
MILWAUKEE WI	SE	443.300	WB9TYT/R	PL2A	WB9TYT	*	TOMAHAWK WI	NC	145.430	N9CLE/R	O A	TOM RP A	*
MILWAUKEE WI	SE	443.375	KC9UZ/R	O	KC9UZ	*	TOMAHAWK WI	NC	223.760	N9CLE/R	O	TOM RP A	*
MILWAUKEE WI	SE	443.550	K9HXA/A	C	K9HXA	*	TREVOR WI	SE	442.600	KA9VZD/R	O CA	KA9VZD	*
MILWAUKEE WI	SE	443.700	WA9HUX/R	O	E.K.A.R.C.	*	WALES WI	SE	224.120	WB9DRD/R	C	WB9DRD	*
MILWAUKEE WI	SE	443.750	WA9POV/R	PL2A	M UHF SO	*	WALES WI	SE	444.975	WB9DRD/R	C	WB9DRD	*
MILWAUKEE WI	SE	443.800	N9GMT/R	OAEZL PL2A	FM 38	*	WAUKESHA WI	SE	147.390	N9KS/R	O	E.A.R.S.	*
MILWAUKEE WI	SE	444.200	K9HXA/A	C	K9HXA	*	WAUPACA WI	NC	145.410	WD9GJW/R	O CA	WD9GJW	*
MILWAUKEE WI	SE	444.250	N9DII/R	C PL	N9DII	*	WAUPACA WI	NC	147.390	WA9FDC/R	O	WAUPACA ARC	*
MILWAUKEE WI	SE	444.300	W9WK/A	O PL	MIL ARES	*	WAUSAU WI	NC	145.450	WB9JGA/R	O	WB9JGA	*
MILWAUKEE WI	SE	444.325	N9CFG/R	O PL	WERA	*	WAUSAU WI	NC	146.640	W9SM/R	O A	WI VAL RA	*
MILWAUKEE WI	SE	444.575	N9EDL/R	O A	N9EDL	UC*	WAUSAU WI	NC	146.820	W9BCC/R	O EZ CA	RIB MT RA	*
MILWAUKEE WI	SE	444.725	KA9UOP/R	OZ PL2A	S.W.A.T.	*	WAUSAU WI	NC	147.060	W9KRY/R	O CA	KC9NW	*
MILWAUKEE WI	SE	444.800	K9HXA/A	C	K9HXA	*	WAUSAU WI	NC	224.300	K9DB/R	O E	CENTAU	*
MILWAUKEE WI	SE	444.850	WB9TRO/R	C PL A E L	WERA	*	WAUSAU WI	NC	224.640	W9SM/R	O Z CA	WI VAL RC	*
MILWAUKEE WI	SE	444.875	WB9TRO/R	C	WERA	*	WAUSAU WI	NC	224.740	WB9JGA/R	O	WB9JGA	*
MILWAUKEE WI	SE	444.950	N9EDL/R	O A	N9EDL	*	WAUSAU WI	NC	421.250	AD9W/R	O E H SYNC	VIDEO	*
MONROE WI	SC	145.110	NR9W/R	O	G C ARA	*	WAUSAU WI	NC	425.750	AD9W/R	AURAL	-4.5 IN +4.5 OUT	*
NEW BERLIN WI	SE	147.285	W9EBF/R	O PL	W9EBF	*	WAUSAU WI	NC	443.750	KC9NW/R	O CA	KC9NW	*
NEW BERLIN WI	SE	442.350	N09B/R	O CA PL4A	N09B	*	WAUSAU WI	NC	443.750	KC9NW/R	O	KC9NW	*
NEW BERLIN WI	SE	442.400	W9EBF/R	O PL	W9EBF	*	WAUSAU WI	NC	444.300	W9BCC/R	O E	W9BCC	*
NEW BERLIN WI	SE	444.500	WA9AOL/R	O	WA9AOL	*	WAUSAU WI	NC	444.700	KC9NW/R	O E CA	KC9NW	*
NEW HOLSTEIN WI	NE	147.300	K9LGU/R	O CA E Z	C.A.R.E.S.	*	WEBB LAKE WI	NW	145.190	NOEDV/R	O	NOEDV	*
NEW LONDON WI	NE	146.625	WB9ICH/R	O	WB9ICH	*	WEST ALLIS WI	SE	224.520	KA9JCP/R	O CA E	KA9JCP	*
NORTH FREEDOM WI	NC	224.680	KA9HKL/R	O	KA9HKL	*	WEST ALLIS WI	SE	442.650	N9EJO/R	O PL T	N9EJO	*
NORTH FREEDOM WI	NC	442.050	WA9SOU/R	PACKET	WA9SOU	PROP.	WEST BEND WI	SE	147.180	WA9THF/R	C	WA9THF	*
ONALASKA WI	SW	224.980	WD9GCR/R	O	WD9GCR	*	WIND LAKE WI	SE	53.330	N9DIR/R	O	N9DIR	*
OREGON WI	SC	444.925	WB9OQU/R	O	WB9OQU	*	WINNECONNE WI	NE	444.750	KA9UNC/R	O	KA9UNC	*
OSHKOSH WI	NE	147.240	WB9TDU/R	O B A E Z	WIN CTY EG	*	WISCONSIN RAPIDS WI	NC	145.290	N9EJO/R	O	N9EJO	*
OSHKOSH WI	NE	147.345	N9GHS/R	O A E Z	SOLAR	*	WISCONSIN RAPIDS WI	NC	146.790	W9DQA/R	O E Z'CA	MID-ST RA	*
PARK FALLS WI	NC	147.000	WB9WHP/R	O	PRICE RA	*	WISCONSIN RAPIDS WI	NC	147.330	K9PJB/R	O CA E Z	WI AIR RA	*
PEPIN WI	NW	145.350	KB9S/R	O	WAB ARS	*							
PEWAUKEE WI	SE	147.210	WB9AKC/R	O PL6A	W.C.T.C.	*							
PEWAUKEE WI	SE	443.125	WB9AKC/R	O PL3A	W.C.T.C.	*							
PLATTEVILLE WI	SW	145.270	KE9NX/R	O A	UW-PL.ARC	*							

11-01-89

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HERE and THERE



Dr. John ("Doc") Schroeder, K9YXW, above, was captured on film at a recent meeting of the Four Lakes Amateur Radio Club in Madison.

SWAGUR ENTERPRISES

J. S. GURSKE, K9EYY, Pres.

Wis. Distr. for Rust Evader Corp.

7240 Highway Y
Lodi, WI 53555

(608)592-5541

Second Court Challenge to FCC on 220 Reassignment

The Department of Justice (DOJ) has gone to court to challenge the judgment and procedure used by the FCC in its reallocation of 220-222 MHz into commercial service. News reports say that a petition was filed October 16 in the U.S. Court of Appeals for the District of Columbia. In it, the DOJ, acting on behalf of the United States of America, and specifically on behalf of the National Communications System, has requested Court review of the FCC in Docket 87-14 denying reconsideration of its 220 MHz allocation decision.

Previously, and charging the FCC with fraud, one of California's largest repeater groups had filed a Letter of Demand for Investigation with the DOJ. The letter sought a federal inquiry by the agency of the Commission's activities surrounding the methods used to reallocate 220-222 MHz away from amateur radio and into commercial use. The Sulfur Mountain Repeater Association, of Ventura, California, filed its request based on what its 300 members feel "borders on willful disregard and possibly corrupt misconduct" by the FCC.

In the petition, Department of Justice attorneys Robert B. Nicholson and David Seidman state that review of the FCC's action was sought on the grounds that it was arbitrary, capricious, and an abuse of discretion. The petition requests the action be set aside, and the matter remanded back to the FCC. The case, United States of America v. Federal Communications Commission, has been assigned Case No. 89-1635 by the Clerk of the Court. A similar petition for review, filed earlier by the

American Radio Relay League, was designated No. 89-1602.

Court action to overturn a federal agency administrative decision is rare but, in cases where this occurs, it means that the matter is usually returned to the same office for reconsideration. In most cases, agencies so challenged have maintained original decisions, with new rationale developed to please the court. The Commission is expected to continue this policy, should it be ordered to reconsider, raising the spectre of continued litigation.

Meanwhile, hams in Dallas, Texas, report having monitored and DF'd a strange commercial repeater operating FM voice on 220.08 MHz, along with simplex activity at 220.05 MHz. Direction finding revealed the repeater site as being at the United Parcel Service Terminal in Ft. Worth, Texas. The repeater has since changed location. A check with the FCC office in Gettysburg showed that no Special Temporary Authority (STA) has been issued either to UPS, or its subsidiary, II Morrow, Inc., for this type of operation.

- 220 Notes, SMRA, others
in The Westlink Report

EDITOR'S NOTE: The only comments from a potential user of the reallocated portion of the 220-225 MHz band which were received by the FCC came from United Parcel Service (UPS). Those comments, in Docket 87-14, were received at the FCC six months after the official closing date for comments; they were nonetheless accepted by the FCC.

- K9ZZ

A HAM'S CHRISTMAS

'Twas the night before Christmas, and in the Ham shack,
Was the warm glow of tubes in the transmitter rack.

The logbook was brought up to date with great care,
In case the FCC might someday be there.

XYL and harmonics were snug in their beds,
No Tennessee Indians to addle their heads.

I plugged in the mike and my new VFO,
Getting all set for a nice QSO.

When from the relays there arose such a clatter
I yanked the big switch to see what was the matter.

Then up on the roof by the two-meter beam
There came QRM like a heterodyne scream:

"On Gonset, on Babcock; on Viking and Elmac!
On Ranger, on Collins! On Heathkit and Eimac!"

"Bias to the grid and volts to the plate,
Just watch that S-meter while we all modulate!"

As I turned on the rig and reached for a dial,
From the antenna tuner Santa slid with a smile.

An RF choke he held tight in his teeth,
And coax encircled his head like a wreath.

A bundle of Ham gear he had flung on his back -
Was that my name on a new power pack?

He had a stub nose like an egg insulator,
And his cheeks glowed bright red like a hot oscillator.

He spoke not a word, but went straight to his work,
Laying out all the gear, then he turned with a jerk

And, laying a wavemeter alongside his nose,
Said, "Pse QSL?", and up the feeders he rose.

He climbed up the dipole, to his team gave a whistle,
And away they all flew like a jet-propelled missile.

But I heard his last signal from the ionosphere:
"Seventy three; eighty-eight! And a Merry Christmas!"

- Walter A. Tompkins, K6ATX (Silent Key),
via
Lew Sheerar, K9JPS

Diego Garcia-Via Waunakee, Korea and Madison

By Russ Fleming, WB9NYG/WC9AAG/VQ9RF
5576 Auchter Lane, Route 3, Waunakee, WI 53597

Editor's Note: The first part of this story was published in our last issue. The author recently served as a relief radio operator aboard a ship based at Diego Garcia, in the Indian Ocean. In the last part, Russ had been told by the Radio Officers' Union that when he renewed his Coast Guard Officer's license, the union would be glad to place him on a ship. Russ picks it from there in the second half of his story, which was written in response to the many questions asking him, "How did you get to be a radio operator aboard ship in Diego Garcia?"

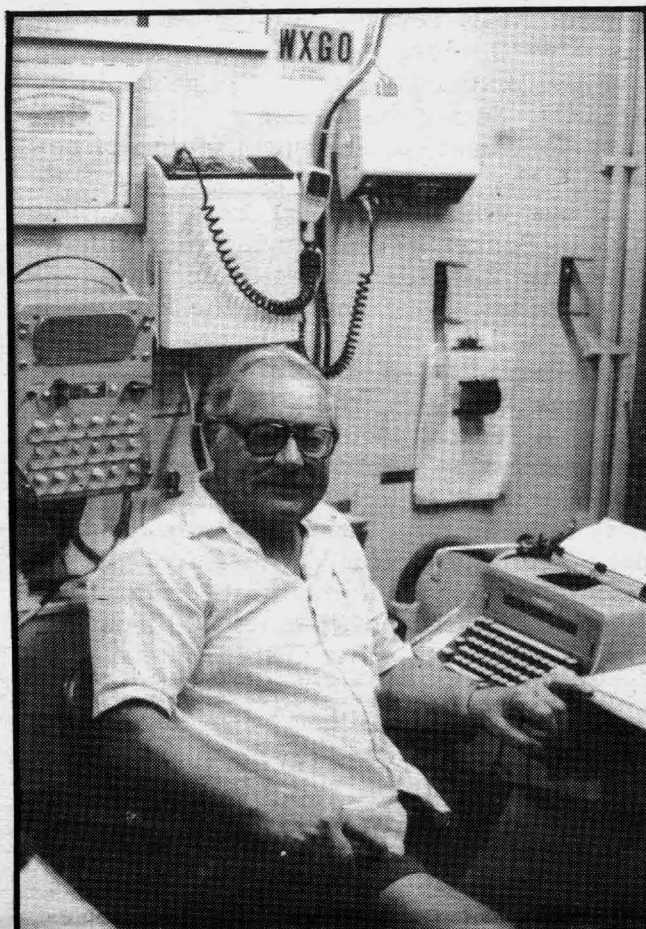
I had to get a physical and a bunch of shots and, after renewing my Coast Guard license, the Union gave my name and phone number to the Vessel Charters Inc. Steam Ship Company in New York. They called me and said they needed a relief operator for a couple months in Diego Garcia. I agreed to take it, but I had to look in an encyclopedia to find out where Diego Garcia is.

I didn't even go to New York for an interview; the company arranged my air fare, and I picked up my tickets at Truax Field in Madison, and I was on my way. I flew North West to Detroit, and then non-stop on a 747 from Detroit to Tokyo, a twelve and a half hour trip. I flew Executive Class to Tokyo, and then First Class from Tokyo to Manila. There are no commercial airlines flying to Diego Garcia, so I had to wait four days in Manila (full expense account), waiting for a flight out of Clark Air Force Base on a C-141 cargo plane.

While waiting in Manila, I toured the island of Corregidor, where General MacArthur's troops had holed up in a tunnel during World War II. After their surrender began the infamous "Bataan Death March", where so many of our troops died.

I finally flew out of Clark AFB on a C-141 jet and, after another 8 1/2 hours, landed on the beautiful island of Diego Garcia.

After clearing customs with the British, and turning my medical information over to the staff purser on the island, I boarded a launch for my ship, the S.S. Santa Victoria. This ship was built originally for States Lines as a combination cargo and passenger ship. The passenger quarters are quite plush, but are not used today. States Lines sold the ship to U.S. Lines, which went bankrupt last year. Then, Vessel Charters, Inc. bought the ship, which is now an ammunition ship, fully loaded with Air Force bombs. For this reason, the ship must anchor as the furthest ship in the lagoon from the village.



Russ Fleming, WB9NYG, at WXGO, the ship's station aboard the S.S. Santa Victoria.

I arrived on board and met Captain Bruno Ravalico. He said, "I hope you know how to fix my radar; that is out." I explained to him that this was my first ship in 35 years, but I would be glad to look it over. The radar had been installed in Subic Bay (in the Philippines) in February, at a cost of \$50,000. There were no spare parts and there was no maintenance manual but, to make a long story short(er), I managed to fix the radar before I left the ship.

There are 13 ships stationed at Diego Garcia, with enough supplies and equipment to support 16,500 troops for 30 days. The ship next to mine had a 2,500 bed mobile hospital on board.

The operator I relieved gave me a cook's tour of the radio shack. Everything was new to me, with the exception of the WW II low frequency transmitter with autoalarm (Mackay).

All communication with the Navy on and around the island was via radioteletype, and other traffic with the New York company or agents in Singapore and Manila was via Marisat satellite, which is in a geostationary orbit above the equator. The satellite downlinks to a land station in Eik, Norway. Radiophone from the ship via satellite costs \$11 per minute, and data transmission is \$4 per minute.

CHAGOS ARCHIPELAGO							
VQ9RF							
TO RADIO:	Day	Month	Year	UTC	MHz	2-Way	RST

DIEGO GARCIA
British Indian Ocean Territory

OPR: WB9NYG
Russ Fleming

Those lucky enough to work Russ at VQ9RF received the QSL card shown above.

I had taken my old, trusty Vibroplex bug along, but I may as well have left it home; I sent only one message via CW and received two using that mode.

The FCC is now giving waivers to ships that sail coastwise within 200 miles of the states to sail without Radio Officers aboard, as the captains can talk to their offices by satellite. In fact, the Exxon Valdez that went aground in Alaska had just received a waiver to sail without the Radio Officer just a week before the grounding.

The normal routine at the island is to sail 2 or 3 days, and then go back to anchorage. The ships sometimes leave port in convoy with the Navy and practice maneuvers, and other times go out alone on a surveillance run for a day or two, and then return to port.

When I sailed back in the fifties, the contract said that when the ship arrived in port, the Radio Officer had no duties until four hours before sailing again, and he was on salary all the time. Because of the unique nature of the operation in Diego Garcia, the Radio Officer stays aboard and answers the ship to shore radiophone, and maintains the electronic equipment. The Radio Officer is paid 8 hours overtime per day on Saturday and Sunday, even when the ship is in port. Last year, when this ship was operated by U.S. Lines, it was the highest paying ship in the lagoon, paying 30 days vacation for 30 days worked. It is now the lowest paying ship; I got 10 days vacation per 30 days worked.

There is a ham club station on the beach, with a 100 foot tower and a 7 element beam. The only problem was that there was only a six meter rig in the shack during the first six weeks I was there. But, one of the Radio Officers on another company ship, which shuttles between Subic Bay (in the Philippines) and Diego Garcia, bought a used Atlas 210X for \$500 in Subic Bay and left it in the shack. After getting my British license as VQ9RF, I fired up the rig for a couple of hours on a



This is the Ham shack on Diego Garcia. The tower is 100 feet high, and is topped by a 7 element beam.

few nights. Needless to say, the pileup built up in a hurry. The Atlas had no RIT, and could not work split, both real disadvantages. However, I made over 300 QSOs, and have received over 100 cards so far since returning home.

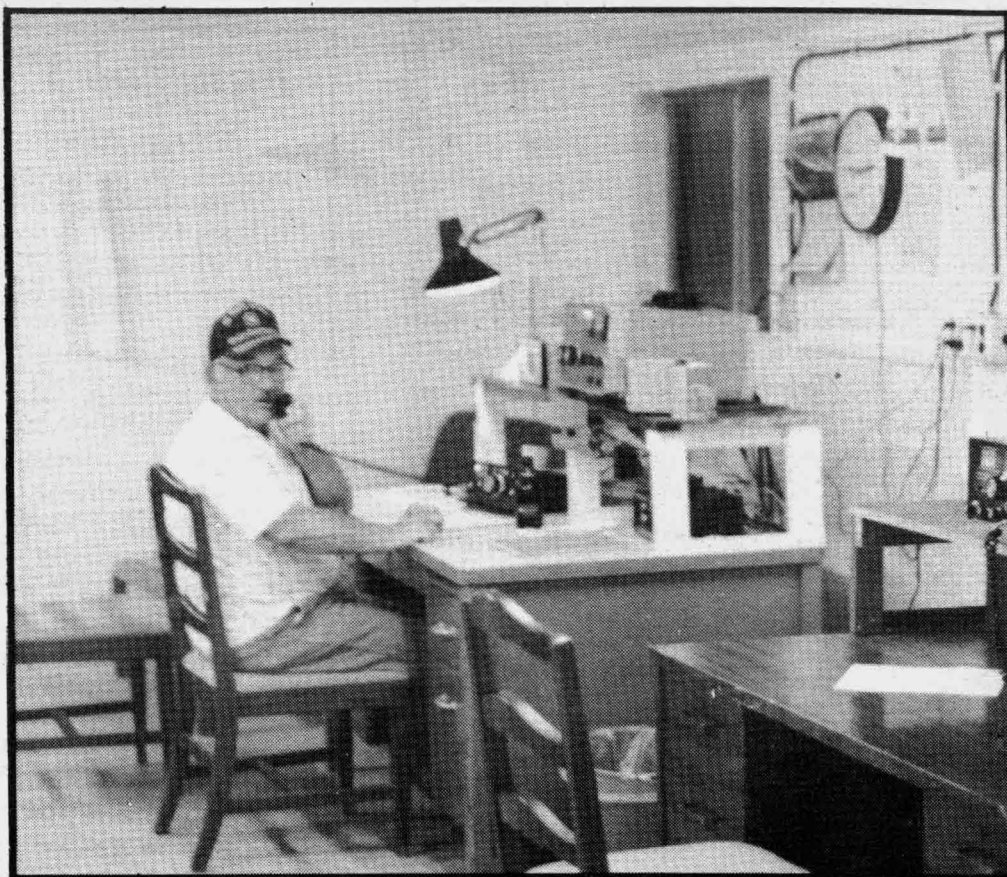
The captain, the chief mate, and I chartered a deep sea boat one day, and in 3 hours landed over 300 pounds of yellow tail tuna. The largest I got was 60 pounds. The fishing is fabulous. In addition to yellow tail tuna, they also catch sailfish and marlin.

My relief came to the island after 65 days, and I again flew a C-141 to Manila, then to Seoul, then non-stop to Los Angeles. I went to San Diego, where I visited my son, who is a Navy jet pilot at North Island. Then, it was back home.

I made over the maximum money allowed while drawing Social Security, and will now have to pay back one dollar for every two dollars I earned over the limit. I enjoyed the experience, and may take a month or two again next year. The food was excellent, and the weather there in June and July is delightful, as it is winter. Daytime highs were around 85 degrees, and a low temperature at night around 70. ■

At right, Russ operates VQ9RF on Diego Garcia. Russ' operating time was limited by the lack of a rig during most of his stay, but he did make over 300 contacts in about two weeks; a Radio Officer left an Atlas 210-X in the Ham shack.

All photos in this story are courtesy of Russ Fleming, WB9NYG/VQ9RF.



The Communicator

(Continued from page 8)

moved to its permanent home in Medford, it is expected that it will put out somewhere over 100 watts, fed into a Hustler G7-144 antenna mounted at the 75-foot level on the west side of the telephone company tower in Medford. THENET software is being used for the node.

JAMBOREE-ON-THE-AIR (JOTA)

Two area Ham operators participated in JOTA activities the weekend of October 21-22. WA9ZCO worked with the Dorchester Girl Scouts, and N9IFA worked with the Lublin Boy Scouts. Contacts were limited, due to poor band conditions. WA9ZCO made one contact to California, and N9IFA made 3 contacts to the same state. All contacts were made on 10 meter USB. WA9ZCO had 10 Scouts participating, and N9IFA had 5 with him. All Scouts participating received a special Ham Radio/Scouting brochure and a postcard-size participation certificate. A picture of WA9ZCO's activities appeared in the 11/1/89 issue of the Abbotsford Tribune-Phonograph newspaper. Both WA9ZCO and N9IFA took some pictures of their own.

UPCOMING NOVICE LICENSE COURSE

A Novice Class Amateur Radio license course will be offered, starting in early January, 1990. N9GHZ will be the instructor, and classes will be held on either Monday or Tuesday nights, with Tuesday night as first preference. Classes will start either the first or second week of January, most likely the 2nd week, and will run from 7 p.m. to 9:30 p.m., with a break somewhere in between. Some classes will

run shorter than the allotted time. The class will run for a total of 12 sessions, and the Novice exams will hopefully be administered at the last few sessions.

It is hoped that the course can be offered through the Northcentral Technical College campus in Medford, if a classroom is available and enough individuals sign up. A fee for the course has yet to be determined. If the course cannot be held at the campus due to a lack of classroom space or students, the course will then be taught in the Emergency Government meeting room in the courthouse in Medford. In that case, there would be no enrollment fee for the course. If too few sign up for it, it would be cancelled altogether.

If you know of anyone who has shown some interest in Amateur Radio, now is the time to start working on them, and encourage them to sign up for the course. A news release will be sent to area newspapers sometime in December, to announce and plug the course.

DEFENSE DEPT. OFFICIAL TO ADDRESS GWEN TOWER ISSUE HERE NOVEMBER 30

(Excerpts reprinted from the 11/15/89 issue of the Star News, Medford, Wis.)

An official with the office of the Assistant Secretary of Defense will be at the November 30 meeting in Medford to answer questions about aGWEN tower the Air Force is planning to build in Taylor County.

Franklin C. Miller, director of strategic forces in the office of the Assistant Secretary of Defense, will address a public hearing in the Red/White Room at Medford Senior High School at 7:30 p.m. on Thursday, November 30. Also present will be

(Please turn to page 16)

Half-Square QRV-DX Monobanders

Work DX with No Tower and No Amplifier.
Cut noise, cut near sigs, build DX sigs, kill QRM.

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New Products

MICROSYSTEMS SOFTWARE FOR DISABLED PERSONS

Microsystems Software, Inc. has announced expansion of its HandiWARE family of alternative access software. HandiWORD™, HandiCHAT™, and HandiTALK™ join previously released HandiCODE™, HandiKEY™, and HandiSHIFT™, enabling MSI to offer a complete line of adapted access software for the MS-DOS platform. HandiWARE provides affordable access solutions to IBM PC, XT, AT, PS/2, and compatible computers for individuals with physical impairments, visual impairments, and those individuals requiring computer-aided speech.

HandiWORD is a statistically weighted word predictor which can save hours of keyboard input time. HandiWORD learns what words you use most often, and adjusts itself to predict those words first. The more you use HandiWORD, the more it learns to "think" like you. HandiWORD co-exists with applications, providing keystroke equivalents that are transparent to application programs. Users can modify the extensive dictionary that is provided, or create "application specific" word prediction libraries.

HandiWORD is priced at \$195.00.

HandiCHAT provides the user with two modes of speech output. The first mode uses a pop-up window that allows quick entry of text to be spoken. The second mode outputs part or all of the text from the PC's screen. Both modes are accessible from within your application programs. HandiCHAT is accessed via a hot-key, and may be used to control industry standard voice synthesizers, such as DECtalk®, Voxtrax™, or Echo™.

HandiCHAT sells for \$95.00.

HandiTALK is a speech-only version of the HandiKEY product. HandiTALK enables creation of matrices that contain "speak cells". Additionally, HandiTALK includes HandiCHAT's "pop-up" window and output-screen-text facilities. HandiTALK has the full matrix flexibility of HandiKEY, including on-line learn and the complete control over matrices. HandiTALK is available for \$295.00.

HandiKEY Deluxe: The word prediction features of HandiWORD and the speech features of HandiTALK have been combined with the HandiKEY matrix approach of inputting PC keyboard data. This combination creates a powerful, integrated communications tool. HandiKEY deluxe, which includes word prediction and speech, is available for \$495.00.

The expansion of the HandiWARE family follows the successful introduction of HandiCODE, the most extensive Morse code input software available for the PC.

Dr. Thomas King, speech/language pathologist and Supervisor of the Augmentative Communication Clinic at the Univer-

Funeral Ventriloquist Stopped by Police

Vern Teske, W9RYA, who had lived in Grafton (WI) for several years, chuckles a bit when he recalls a funny story about operating mobile, using AM phone on 75 meters.

One day at the church there was a funeral service, "You know, the church right on Highway 60," says Vern. Churchgoers were listening to the eulogy sermon, when suddenly, over the public address system, they heard the crackly words "I better get out of here and leave for Cedarburg!" Scared or surprised, they wondered if those sounds were their dearly departed friend's last farewell words - leaving the Grafton church for Cedarburg? Goodness!

Two days later, the Grafton Chief of Police flagged Vern over to the side of the road. "From the antennas on your car, I guess you got radios or CBs," motioned the Chief, "We have a little electronics problem at our church...." As the Chief described the mysterious voice that was heard over the church PA system, Vern's thoughts drifted to slowly recall that he was operating mobile around the corner near the church. Those mystery words sounded familiar, too.

Vern focused back to reality to hear



the Chief say, "So, Vern, you think you can help us out with this PA problem?" "Oh, sure!" replied Vern, a bit embarrassed. He knew the problem could be fixed very simply, without even going into the church.

From then on, W9RYA AM-phone 75-meter mobile always operated at least two blocks away from the church, especially during funeral services.

- Rich Regent, K9GDF

sity of Wisconsin at Eau Claire, also holds an FCC Amateur Extra Class license (WF9I). According to Dr. King, "HandiCODE allows adapted control of a PC with convenience and speed that can rival keyboard entry. I am most impressed with this system, and can envision a multitude of uses for it."

Dr. Howard Shane, Director of the Communications Enhancement Center of the Childrens' Hospital, Boston, MA, states, "Microsystems Software, Inc. provides innovative and affordable solutions to communication enhancement. I find MSI technically competent and responsive to the needs of the end-user. Their software enables adapted access for a variety of disabling conditions."

Microsystems Software, Inc. is a software development firm that is committed to the development of quality adapted-access software that provides effective solutions at affordable prices. MSI also develops networking utilities, pattern recognition, neural networks, and software developer tools for the micro-computer market. To aid in the distribution of special needs software, Microsystems Software donates 10% of after-tax profits for the gifting of HandiWARE products to those in need.

For more information on HandiWARE, contact Microsystems Software, Inc., 600 Worcester Road, Framingham, MA 01701, 508/626-8511.

- Microsystems Software news release

ADDITIONAL OPTIONS FOR ICOM IC-901 FIBER OPTIC TRANSCEIVER

The revolutionary IC-901 fiber optic remote mount multi-band transceiver offers a complete variety of options for mixing and matching to meet every amateur operator's mobile needs. Below are new options available to complete your IC-901 multi-band package:

Unit	Description	Sugg. Retail Price
UX-S92A	2-meter SSB Band Unit, complete with USB, LSB, and CW modes	\$599.00
SP-12	Slim Line External Speaker with Visor Clip for Mobiles	\$25.99
OPC-243	DC Cable	\$33.49
EX-766	Interface-A Connector	\$47.99
EX-767	Interface-B Connector	\$42.99

- ICOM news release

Tell manufacturers you read about their products and services here in
BADGER STATE SMOKE SIGNALS!

The QM

By Quincy Lucious Farkleberry, 9Q9LF
Executive Director,

International Society for Removal of Morse Code Requirement
on Amateur Phrequencies (I.S.F.R.O.M.C.R.A.P.)

The Amateur Radio fraternity and industry has been in a quandary the past few years. The number of licensed Hams has not increased fast enough to show a healthy hobby. QST magazine has run editorials on the subject. Ham Radio magazine has gone out on a limb and invited its subscribers to write in with suggested solutions to the problem. They then promised to create a forum for the solving of this dilemma. One of the so-called problems is that we are not attracting enough young Hams into the hobby. Balderdash! Just take a look at the demographics of the U S of A. Where are all the people heading? To old age, of course. Are these oldsters interested in the new modes of communication, like RTTY, AMTOR, Packet Radio, computer generated CW, and OSCAR? No, these things scare the pants off the older generation. Anything that has to do with rock videos, heavy metal, or computers is too complicated and scary to get into. What do they want to do? Talk. Forget about all the fancy and foreign sounding technologies. The senior citizens want to just plain talk.

Therein lies the secret to increasing the Amateur Radio population. With all of us heading to older age, and wanting to talk, something new must be offered in the way of talking on Ham Radio. Let's face it, nothing really new has hit the scene since SSB came along in the fifties. It took a while before it caught on, but just tune around the HF phone bands and that is all you will hear now. I propose a new mode of communications utilizing talking. I call it Quick Mode, or QM for short.

Before you decide to make that long overdue appointment with a dentist, hear me out. At first blush this may seem a little weird, but then think back to those who first tried SSB. They were laughed at and called all sorts of names. Look at the mode you are now using on the HF bands.

Now that I have your curiosity aroused, let's take a closer look at this latest experimental mode of communication. Scientists have proved that the human brain can comprehend speech that has been compressed. The many spaces between the words and syllables can be removed without any loss in intelligence. It is further possible to train the mind to understand speech with less and less superfluous spaces, or what I prefer to call dead air. Most Hams despise dead air already. Just listen to the monologists on 75 meter phone. They constantly insert "ahs" and "ers" between words. The poor Ham's brain on the other end of that QSO starts to rot when the space is filled up with useless sounds.

It is time to take out the unnecessary noises, and make for more compact radio. I almost decided to call this new mode Compacted Radio, because I got the idea from Packet Radio. Those brief little bursts of ASCII carry a multitude of information. My second inspiration came from the gentleman who does commercials on television for an overnight express of packages and letters. He certainly is able to talk quickly.

Most Hams are already blessed with that same ability. I'll bet that most of you have slipped a new piece of gear into the shack when the XYL/OM was visiting with his/her relatives, only to have to respond to a barrage of questions dealing with cost, necessity, when, why, and some silly logic about the budget after it was discovered by your XYL/OM. I'll also bet that new rig is still there. You responded with some fast talk of your own, or the new solid state transceiver would be gone. You shifted into QM (Quick Mode) without even giving it a second thought. If you were to have let in just the tiniest little pause in your string of words or syllables, the XYL/OM would have jumped in with a rebuttal, and you would have lost not only the rig, but the argument then and there. So you can see that you already possess the tools to develop the QM (Quick Mode).

The possibilities of QM are unlimited. With a little bit of practice, you can talk quicker and quicker. It won't be long before you

will be up to 500 words per minute. True QM will not be realized until you can run a ten-minute monologue into one-tenth of a second. What will this do for crowded band conditions? Thousands of QSOs will be able to be carried out on the same frequency by skilled QM operators. At first, there will be a small problem with bandwidth caused by the increased speed of the words that come out of your mouth. However, Hams have conquered all technological challenges so far, and come up with a new circuit to solve the problem. This little situation is no exception. In fact, I have been researching this, and have discovered Mitscherlich's law of diminishing returns, and found that it can be applied to bandwidth. I call it Dimwidth. So much for the technical in this treatise.

It won't be long before Keath Hit will be on the market with a kit to put into your microphone to correct the problem. I am privileged to some industry secrets, and have it on good advice that UCOM and Five-Tec already have prototypes for the transceiver market that are incorporating QM.

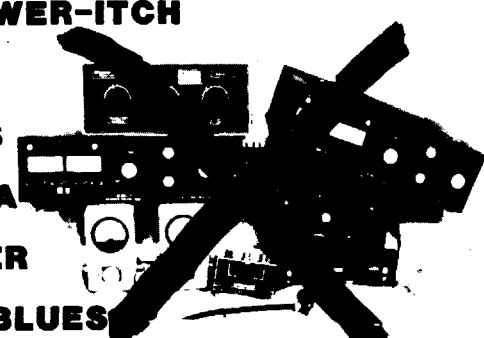
Can't you see what this will do to the industry? New rigs, add-ons for your present rig, counters that will register up to one million words per minute. It won't be too long before the electronic mouth will replace the straight mouth. I can just picture it now. Two OMs are having a rag chew on 75 (in QM, of course)."You have a good mouth there, Fred. I, too, use a straight mouth. Always have and always will. Over to you for your finals".... "Fine business, Bert. I can always tell it's you calling CQ. You have just a touch of Lake Erie Swing in your voice. Sure is a lot better than those darn electronic mouthes that are on the market. Everyone sounds the same. Oh, got to tell you before I go QRT, was tuning around up on 40 last week, and heard a couple of kids in the Extra band using electronic mouthes. One of them belched on his Pepsi, and blew eight ICs in the Dimwidth section. He wasn't able to say a thing after that. Hi Hi. Well, gotta go now. See you next Friday at 2100.000000 Zulu to 2100.000001 Zulu. 73s."

- Forwarded to BSSS by Lee Andreas, N9BDL

JANUARY 4, 1983

A CURE WAS FOUND FOR THESE DISEASES :

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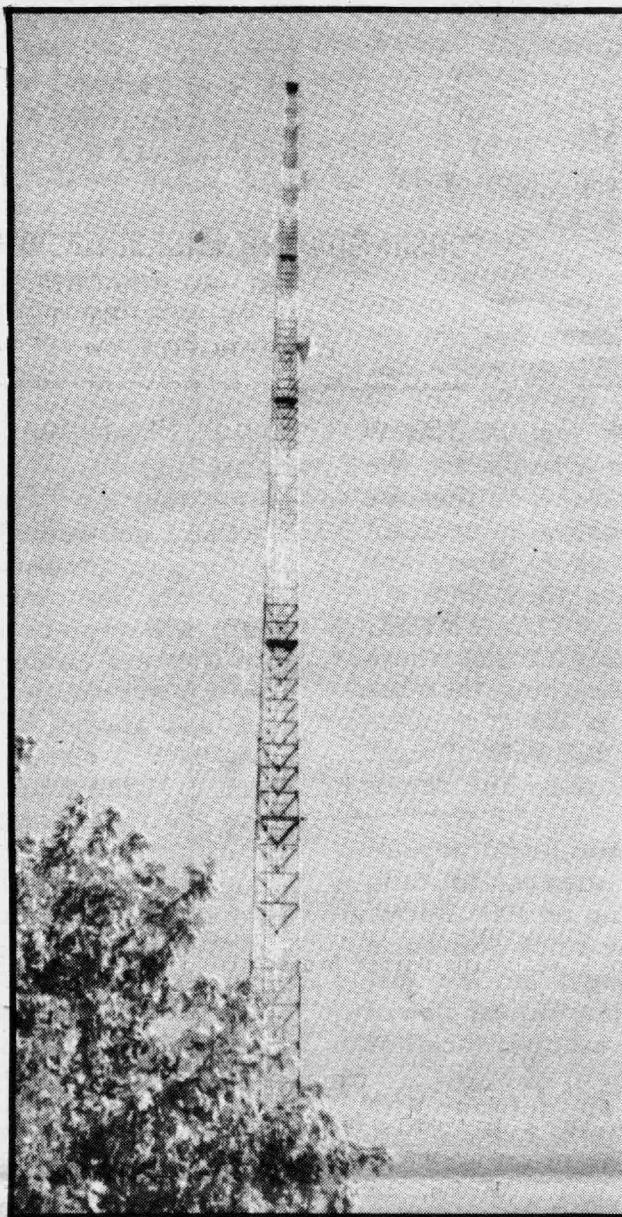
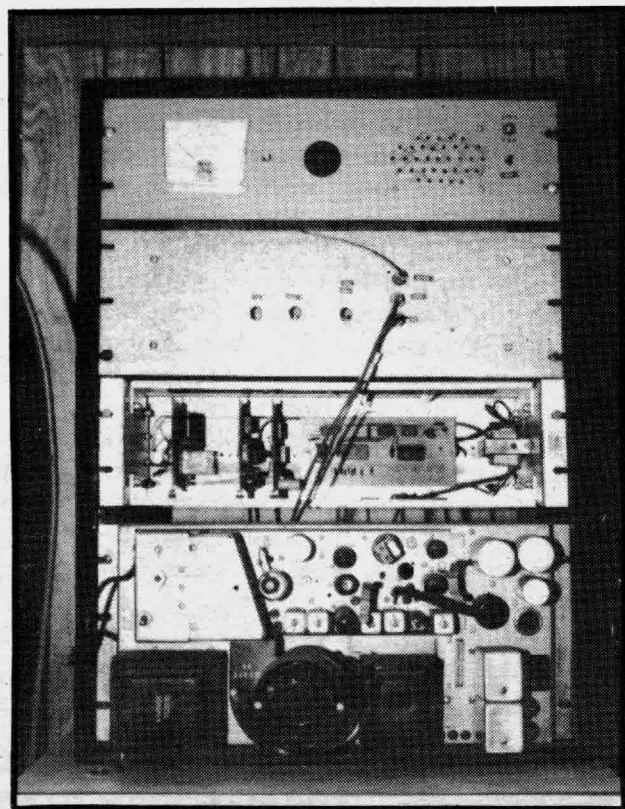
THE BOTTOM LINE: "MAXCOM WORKS"

Repeater Profiles

(Continued from page 7)

The backup repeater for K9UXP/R, shown below, was the original repeater. It is made of General Electric and Motorola gear. The K9UXP/R antennas are about 3/4 of the way up on the left side of the tower shown at right.

- Photos by John Frank, WB9TQG



Eau Claire Amateur Radio Club

(Continued from page 6)

Secretary: Carl Searing, W9NW
Treasurer: Don Alm, K9UXP

We will meet at 6 p.m. for food and fellowship, and the election and meeting will be held after our meal.

Bill, W9NNS, gave us a progress report on our digipeater. It is presently under construction, and should be in operation by Thanksgiving.

Burt Spangler, W9ZZI, is our program chairman. He introduced Kent Helman, W9LZQ, our speaker for the evening's program. Kent has operated a node and bulletin board on packet in the LaCrosse area for some time. He gave us food for thought on how it works, some of the problems, and what progress is being made to get a statewide system operating. We are grateful to Kent for an informative and entertaining program.

The meeting was adjourned at 9:30 p.m.

Respectfully submitted:

Bob Fallis, W9BAR, Secretary



HERE and THERE

FCC ANNOUNCES 1990 MAXIMUM REIMBURSEMENT FEE FOR AMATEUR LICENSE EXAMINATION: The FCC announced that effective January 1, 1990, the maximum allowable reimbursement fee for an amateur operation license examination will be \$4.96. This amount is based on a 4.3% increase in the Department of Labor Consumer Price Index between September 1988 and September 1989. ARRL VEC Manager Bart Jahnke, KB9NM, says that the ARRL VEC will set its fee at \$4.95, consistent with the practice of "rounding down" to the next lowest multiple of \$.05.

Volunteer examiners (VEs) and volunteer examiner coordinators (VECs) may charge examinees for out-of-pocket expenses incurred in preparing, processing or administering examinations for Technician, General, Advanced, and Amateur Extra Class operator licenses. The amount of any such reimbursement fee from any examinee for any one examination session, regardless of the number of elements administered, must not exceed the maximum allowable fee.

- The ARRL Letter

The Communicator

(Continued from page 13)

GWEN Project Manager Lt. Colonel Stephen Martin.... The Air Force recently listed six possible sites for the tower, including three northeast of Medford; one east of Medford, and two due east of Whittlesey.

GWEN (Ground Wave Emergency Network) is an unmanned and automated data system designed to ensure adequate communications between Air Force command centers and SAC bombers and missile sites in the event of war. Colonel Martin presided over an informational meeting here last July, in which about 40 people protested the tower.... Some of those at the hearing felt that Martin and other Air Force officials dodged legitimate questions about the strategic worth of GWEN towers, and requested another hearing with someone present to address strategic and policy questions..

BITS AND PIECES

Our condolences to Ray Gajda, N9IDW, Lublin, at the loss of his brother, Ed, also of Lublin, who passed away on Monday, November 13th, at the age of 73.

Bob, KB9BLV, Dorchester, recently purchased an AEA Model PK-64 multi-mode TNC, and will hopefully be on the air soon on 2-meter packet, as well as possibly some other modes and bands.

Dennis, KB9CBG, rural Thorp, recently ordered a Kenwood 2-meter HT, and will hopefully be heard on the local 2-meter repeaters in the near future.

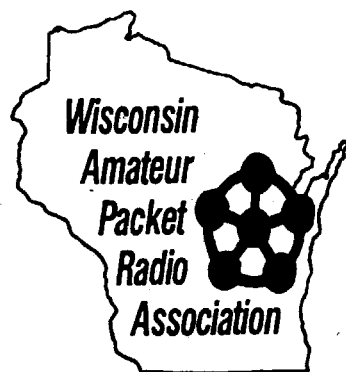
Mike, N9GHZ, Abbotsford, finally got his tower up on Sunday, October 22nd. The tower is 34 feet high, with an additional 11 feet of mast above that. Mounted on the mast are a Hustler G7-144 2-meter 7 dB gain vertical, at the top; a Rutland Arrays 22-element, 15.8 dB gain, 432 MHz beam below that; and an 11-element Cushcraft A147-11, 13.2 dB gain 2-meter beam below that. Also installed was an Alliance rotor and control box. N9GHZ hopes to use the 432 MHz beam for Amateur Television in the near future.

Thanks to those who assisted with the tower-raising, including KA9PMM (Rockford, IL); AD9W and son (Mosinee); N9IAB (Wausau); KB9BLV and WD9FWP (Dorchester); and KA9WDX (Medford). Thanks also to those who helped "behind the scenes" prior to the antenna-raising, with advice, acquisition of materials, etc., including AD9W, N9IAB, KE4FE, WA9ZCO, and KA9-UXN.

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THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WAPR MEETING SCHEDULED

The next meeting of WAPR will be held at the WARC hamfest/swapfest being held at Waukesha County Expo Center, Waukesha, WI, on 13 January 1990. The meeting will take place in a separate room at 1030 hrs. Dan Bolander, WB9TYT, President of WAPR, will speak briefly on where WAPR was a year ago, where we are at the present, and what plans WAPR has for the future on networking, updating the present nodes, future nodes, and how it will all affect the State packet system. This is an exciting time for WAPR -- attend and see why!

In addition to the meeting, WAPR will have an operating VHF packet station set up with brief but complete "HOW TO" sessions for newcomers and old salts alike -- hopefully on a one-to-one basis. Should be fun and interesting! See you there !!

NTS TRAFFIC HANDLING ON PACKET

Well, we've all survived the dressing, cranberries, pumpkin pie, and the other trimmings of Turkey Day -- which, for clarification, is NOT named in honor of WB9TYT, Dan Bolander, President of WAPR. As promised, just in time for the Big Holiday season, here are the "HOW TO" essentials of sending NTS traffic.

Just think, you may be slick enough to justify to the XYL (or the OM) how you can now afford to buy that new computer, or radio, or TNC, as you'll no longer need to lay out huge sums of cash at the card store or department store to purchase Christmas cards -- you may now send all of your greetings FREE via NTS !!

any have a wife like
tmas sale last year
F) enough cards so
man-woman-child in
hem and still have
our own household
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serve to convince
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would be well to

- 3) NO BUSINESS COMMUNICATIONS on behalf of ANY PARTY -- EXCEPT in the case of EMERGENCY communications as defined in 97.3(w); "Any amateur communication directly relating to the immediate safety of human life or the immediate protection of property."

Now, let's get to the business of sending a Holiday greeting to Grandma and Grandpa.

ALL NTS TRAFFIC MUST FOLLOW THE NTS FORMAT

When you get the prompt from your BBS as ">", type "ST" (quote marks only here for clarity for you -- do not type them) for Send Traffic, then a space, then the ZIP CODE of where your traffic is headed, then a space, then "@", then another space and then "NTSXX", where "XX" is the two-letter state designator. Hit <CR> or return or enter.

note...". Try adding that to your writing armamentarium ! There are specific rules laid down by the FCC and governing bodies of other countries whom have signed an agreement with the United States regarding Third Party Traffic.

(There are numerous countries whom have signed Third Party Agreements with the United States. If you are contemplating sending INTERNATIONAL THIRD PARTY TRAFFIC, I urge you to contact either the ARRL at ARRL Headquarters, 225 Main Street, Newington, CT 06111 [Telephone 203-666-1541], or your NTS Section Manager as listed in "QST", or check the issues of "QST".)

A check of the November, 1989 "QST" showed the following countries as having signed agreements with the United States to permit Third Party Traffic:

Antigua/Barbuda, Argentina, Australia, Belize, Bolivia, Brazil, Canada, Chile, Columbia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, The Gambia, Ghana, Grenada, Guatamala, Guyana, Haiti, Honduras, Israel, Jamaica, Jordan, Liberia, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Christopher/Nevis, St. Vincent/Grenadines, Sierra Leone, Swaziland, Trinidad/Tobago, United Kingdom (special events stations with call sign prefix GB followed by a number other than 3), Uruguay, Venezuela, United Nations Station 4UITU in Geneva, Switzerland, and AU1VIC in Vienna, Austria.

Briefly, Third Party Traffic has to fit the following:

- 1) If international, we have to have a Third Party Agreement with them.
- 2) NO MATERIAL COMPENSATION in any way, shape or form may be involved.

Newington, CT 06111
203-666-1541

Holiday Greetings to both of you X Is your Christmas shopping done QUERY We are looking forward to spending the Holidays with you X Love Jim, Sue, and the Kids

AR
N9IKD @ WB9TYT.WI.USA.NA

The first line is called the PREAMBLE.

"NR1" is your message number. Begin your sequential count with "1" at the beginning of the year, or, if you're a HEAVY HITTER with the beginning of each month.

"R" is Routine. There are four categories of messages. Each successive one taking priority

Your message thus far will appear:

ST 06111 @ NTSCT

(Unlike the SP messages, where you would add all the HFS [Hierarchical Forwarding System] designators as .CT.USA.NA, the NTS people do NOT want that added as of this writing. Please do NOT add them to NTS traffic. ...)

Next, the BBS will ask you for the subject. -- Another departure from "Private Messages" -- Type "QTC1", CITY, STATE (2-letter), ZIP, AREA CODE and EXCHANGE (if not the entire phone number) of your intended recipient. These items will aid in the final distribution of your message at the other end. The "QTC1" portion means "I have ONE message for you". The numeral "1" would change if you were "Booking" messages, i.e., sending the same message content to different addresses within the same city, zip, etc. AT PRESENT, "Booking" of messages is NOT a recommended practice on PACKET, so plan on "QTC1".

Your subject line would now appear as:

QTC1 NEWINGTON, CT 06111 203-666-1541

After entering the above, your BBS will prompt you for the "text" portion of the message (as it does with "SP" jobbers).

Assume your call is N9IKD, and you want to send a message to your parents in Newington, CT. The NTS form would be as follows:

NR 1 R HXG N9IKD 25 SHOREWOOD WI 1830Z 15 DEC

Mr. and Mrs. Ted Smith
1234 Any Street

On the other hand, you m
mine who made EVERY post-Christ
and has purchased (at 50% OF
that you could supply every
Rhinelander with a dozen of t
enough left over to supply y
clear through the year 2007.
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I'm talking about...). Trust
situation, do not even atte
tioned ruse. It would only
your spouse of what he/she al

NTS, or National Traffic
anism whereby THIRD PARTY TR
via amateur radio. Messages
(sent) by you, or your stat
another person -- and may b
amateurs on the destination en

NOTA BENE: (or, just
Classical Latin for "...it

over the preceeding.

R = Routine - this type of message is handled last in case of a disaster. It is as the name implies, routine

W = Welfare - you (your party) is making an inquiry as to the Health and Welfare of an individual or family within a disaster zone. Handled before Routine, but after the following two.

P = Priority - important messages having a specific time limit. It could also be official messages not encompassed by the Emergency category, i.e., press releases, or death or injury notifications within a disaster area.

E = Emergency - includes all messages having LIFE OR DEATH importance. This could include official messages of the disaster area agencies requesting VITAL supplies or materials, or instructions which are essential to the stricken area populace. This category is rarely used.

"HXG" are your handling instructions for the delivering station. Several may be combined by simply adding the last letter to the original "HX" instruction, i.e., "HXCG" = "HXC" + "HXG". *** See end of article for a short "HX-" guide.

"N9IKD" is the call of the originating station; the FIRST amateur handler. If you are passing this message along, do NOT insert your callsign in place of the originating station.

"25" is the ARL word count of the message. DO NOT include the address or the signature! Refer back to our sample Holiday Greeting. Each word counts as one, with the "X" at the end of a statement and the "QUERY" at the end of a question counting as one each. Please try to limit the message word count to 25 or less.

A word of caution on word count(s) - - The "old method" of showing a word count was to list it in the Preamble as "ARL 25" (or whatever number the word count was). Too many errors were being made by the neophyte traffic handlers who read this as "ARL MESSAGE # 25", and delivered it as text to the recipient, instead of interpreting it correctly as a word count of 25 words. Some of the ARL Numbered Radiograms are fairly benign, but some imply a pending health crisis - - an ugly mistake to make !!

The CURRENT METHOD of showing WORD COUNT is simply to enter the NUMBER - - NO "ARL" PREFIX !! This should eliminate the error of reading a disastrous message when none was intended !!

Some simple (?) word count rules:

- 1) Punctuation ("X" or "QUERY") count separately as a word.
- 2) Mixed alpha-numeric groups (Ex.: 2100Z) count as one word.
- 3) Initial or number groups count as one word if sent together (as "2N1601" or "73") . They count as ONE EACH if sent separately (as "W B Smith" counts as three words, and "seventy three" counts as two words).
- 4) Signatures do NOT count, but closings (as "Love", or "Best Wishes") do get counted.
- 5) Telephone numbers count as three words - - Area code + Prefix + number.
- 6) U.S. Zips codes count as one. U.S. Zip + Four count as two. Canadian Zips count as two.

"SHOREWOOD WI 1830Z 15 DEC" - - This is the location of the originating station, the time IN

UTC, PLEASE, of filing the message, and the date.

A few pointers and hints:

There are ARL Numbered Messages for short-handling messages. An example would be "ARL SIXTY ONE" counts for three words and means "Wishing you a very Merry Christmas and a Happy New Year", which would have had a word count of eleven.

Nota Bene: (Remember that one ?) ALWAYS SPELL OUT ARL NUMBERS., i.e., send "ARL SIXTY ONE", not "ARL 61" !!

ARL messages are a quick and easy means of sending messages. Some require a "fill word" or number to complete them. "ARL SIXTY TWO CHRISTMAS" would be four words and would be translated at the destination as "Greetings and Best Wishes to you for a pleasant Holiday Season", with "Christmas" inserted in the line area when delivered.

A list of ARL Numbered Radiograms are available from the ARRL, and are available on some BBS stations in their FILES and are down-loadable. They come in two groups: 26 messages for "Relief Emergency" use, and 20 Routine type messages. They will be sent out from this BBS to "SYSOP @ RTWIS" which should get them to your favorite BBS in time for sending Holiday Greetings. If your BBS does not have them, ask him to obtain a copy from either WB9TYT or KC9BK.

Please note the use of SPACES and BLANK LINES (Line Feeds [CR]) to separate portions of a packet NTS message. These take the place of BT at the end of each section (as you would do in a CW NTS NET) or AA after each line of the address (again, seen in CW operations).

You can get fancy and send "AR" to denote the end of the message - on a separate line - followed by your call @ BBS where you may be reached.

Some ideas for you or your club:

- 1) Register your station with the local Red Cross office so if the need arises, they may contact you.
- 2) Talk with your child's teacher and offer to send Holiday greetings to the grandparents of each student.
- 3) Contact the Social Services department of your local nursing home and offer to handle their Holiday messages or Birthday greetings.
- 4) Contact your local U.S.O. office, Salvation Army, or Rescue Mission to see if there are any Holiday greetings you might send for them.
- 5) Set up your station at your local church or social organization bazaar to show people how packet and amateur radio works, and ship out a TON of messages at the same time. The use of ARL Numbered Radiograms simplifies things considerably. You'll probably need two or more persons at your booth as it gets hectic. N9GDY, Harry, offers this (along with several other hams helping) every year at the Oshkosh E.A.A. meeting. The use of ARRL NTS Message pads also helps with the word counts as they have five spaces per line - - even I can decipher those !!
- 6) Try to gather messages from the shut-ins at your local hospital. The Pediatric ward and the Long Term care areas would be most fruitful. No need to take your HT or Packet

gear with as they would not be allowed in most cases as they might interfere with the telemetry going on within the hospital.

- 7) Make your presence and capabilities known to local Emergency Government Authorities.
- 8) Contact your ARES representative. Your local radio club will know whom he/she is.

How about the delivering end??? Your message will be routed directly to a station (BBS) handling the ZIP CODE you placed in the first line of the entire message (ST ZIP @ NTSXX). This is also seen again in the SUBJECT line (QTC1 CITY STATE ZIP PHONE), and in the address portion of the text.

They will be listed as "MAIL" by your BBS but just the ZIP will appear in the listing along with the call(s) of other stations who have mail waiting for them to pick up. If unsure, simply type LT for List Traffic after signing on to the BBS. It should list all the traffic he has on the Board - - and will list them as "TN" for undelivered ones, and "TF" for delivered or picked up ones. PLEASE CHECK WITH THE SYSOP FIRST BEFORE TAKING ANY OF THEM FOR DELIVERY AS HE MAY HAVE CERTAIN PERSONS WHO ROUTINELY TAKE CARE OF DELIVERING THEM. Offer your services in a message to the Sysop, and wait for a reply. The regular NTS "deliverers" accumulate points for doing this and get recognition from the ARRL and NTS for their services.

Suppose one of the "regulars" takes this task on and has your message to the parents - - he will take it if he can reach the phone number from his exchange - - or if the instructions "OK" toll charges for the phone delivery on a long distance call for him. The "HX-" instructions will also tell him about getting a reply, etc. The message will get to a thrilled person(s) on the other end on a timely basis.

After he delivers the message, he will re-contact the BBS and KILL (!!!) the message so that it will not have multiple deliveries.

A message was recently handled here in Milwaukee (past several weeks) from a California Novice (call-wise) who wondered if he could get a message delivered to his grandparents in Milwaukee, and how he would go about it. A short course in NTS was sent to him along with the offer to call them and pass along a message if he would just send the name and address and phone number and the text. Hopefully, he'll do it in NTS fashion !!! The week before that, a PLEA from a California station reached Milwaukee from a ham trying to get to his wife in ??Arizona?? at a place where she had NO access to a phone. He stated what the message should contain, but had no idea as to how to get it to her. That was a tough one, but attempted.

A brief guide of the "HX-" instructions:

- HXA - (Followed by a number as "HXA 50") authorizes collect landline delivery by addressee within _____ miles. (If there is no number listed, the mileage is unlimited!)
- HXB - Followed by a number as "HXB 48") means to cancel the message if not delivered within _____ hours of FILING time - - then service the originating station.
- HXC - Report back to the originating station the TIME of DELIVERY, and the DATE of DELIVERY.

(continued on page 19)

Yellow Thunder Amateur Radio Club



K90DK
WB9FDZ

Harry Westlund, K9EHJ,
Secretary
720 Jefferson Street
Baraboo, WI 53913

The December meeting of the Yellow Thunder Amateur Radio Club, Inc. will be held on Thursday, December 14, 1989 in room 25 of the Baraboo Civic Center, Baraboo, WI

The November 15, 1989 meeting of the Yellow Thunder Amateur Radio Club was called to order at 8:00 p.m. by President Duane Grotophorst, KA9HKL.

The following members and guests were present:

Harry Mayland, K9FFT	Baraboo
Harold Reif, KA9YQP	Baraboo
Dennis Sweeney	Portage
Dennis F. Sweeney	Portage
Art Kleefisch, W9WSS	Baraboo
Ken Johnson, K9DZG	Mazomanie
Steve R, Schwoegler, WB9RNL	Wisconsin Dells
Anne Klinkner	Prairie du Sac
Bill Klinkner	Prairie du Sac
Jim Decker, WB9UQT	Baraboo
Duane Grotophorst, KA9HKL	Loganville
Harry Westlund, K9EHJ	Baraboo
Kenneth A. Ebner, K9EN	Portage

The minutes of the previous meeting were accepted as published in BSSS.

The President called for a round of introductions by the members and guests present.

The Treasurer, James Decker, WB9UQT gave the Treasurers report as: Operating balance of \$280.90 and a total balance of \$314.47.

The next order of business was Old Business. The subject of novice classes were resumed. It was decided to begin the novice classes with an introductory meeting on January 16, 1990 at our regular scheduled meeting.

Following this the president called for new business. The subject of meeting schedule was discussed and it was decided to ry for a three(3) day rotation of meeting days. Meetings to be on Tuesdays, Wednesdays & Thursdays. This will be finalized by meeting with the person who accepts our room reservations for meetings. Exact meet-

ings dates will be published in the next months minutes.

It appears the Sheriff is interested in emergency communications in the area. Art Kleefisch, W9WSS, volunteered to contact the Sheriff to see where his interests lie.

The next meeting is December 14, 1989. It was agreed that we have our usual Christmas party at that time.

Following this, the president asked for nominations for officers for 1990. The following is the list of nominees:

President - Duane Grotophorst, KA9HKL. Nominated by Steve Schwoegler, WB9RNL, and seconded by Harry Mayland, K9FFT.

Vice-President - Steve Schwoegler, WB9RNL. Nominated by Harry Westlund, K9EHJ, and seconded by Harry Mayland, K9FFT.

Secretary - Art Kleefisch, W9WSS. With no nominations from the floor, Art Kleefisch, W9WSS offered to run.

Treasurer - James Decker, WB9UQT. Nominated by Harry Mayland, K9FFT, and seconded by Art Kleefisch, W9WSS.

Following the nominations, Buck Nite drawing was held and the winner was Bob Johnson, WB9EIW, who was not present to claim his \$2.00 prize.

On a motion by Harry Westlund, K9EHJ, and seconded by James Decker, WB9UQT, the meeting was adjourned at 9:10 p.m.

After a short break, Duane Grotophorst, KA9HKL, gave a very interesting talk on radio communications in aircraft. He also displayed some typical antenna and receivers with talk.

Respectfully Submitted,
Harry Westlund, K9EHJ, Secretary

YTARC BIRTHDAZE

Jim Romelfanger	K9ZZ	December 6
Duane Grotophorst	KA9HKL	December 31
Art Kleefisch	W9WSS	December 20

SENTENCE SERMON

If someone were to pay you ten cents for every kind word that you have spoken about people, and collect five cents for every unkind word, would you be rich or poor?

--Word and Way

FOR SALE: TA31 Mosley antenna, MT-3000A Dentron tuner and Drake 2B with 2BQ multiplier.
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WAPR - NTS TRAFFIC
(continued from page 18)

- HXD - Report back to the originating station the station from which received, the date, time, and method of delivery.
- HXE - The delivering station should get a reply from the addressee, and originate a message back to the originating station of the message.
- HXF - (followed by a number as "HXF 25 DEC 1989") Instructs the delivering station to HOLD delivery until _____ (date).
- HXG - No mail or toll call is required. If any expense is involved, cancel the message and service the originating station.

Hope this fills the bill for you on NTS procedure. If you have a question, please direct it to Dan Bolander, WB9TYT.WI.USA.NA, or to your friendly Sysop. Either will be more than happy to help you.

From the entire gang at WAPR (we were going to send out NTS messages, but could not get any volunteers !!!!) a VERY MERRY CHRISTMAS and a HAPPY and PROSPEROUS NEW YEAR ! See you in 1990!

LICENSE FEES DELETED

ARRL BULLETIN 85 - FROM ARRL HEADQUARTERS
NEWINGTON CT - NOVEMBER 21, 1989
TO ALL RADIO AMATEURS

AMATEUR LICENSE FEES HAVE BEEN DELETED FROM THE BUDGET RECONCILIATION LEGISLATION NOW UNDER CONSIDERATION IN CONGRESS. THE CONFERENCE COMMITTEE REPORT, RELEASED TODAY, STATES THAT THE CONFEREES RECOGNIZE THAT AMATEUR LICENSEES DO NOT OPERATE FOR PROFIT AND CAN PLAY AN IMPORTANT PUBLIC SAFETY ROLE IN TIME OF DISASTER OR EMERGENCY. THERE IS LITTLE CHANCE OF THE FEES BEING REINTRODUCED ON THE FLOOR OF EITHER HOUSE OF CONGRESS AS THE LEGISLATION GOES FORWARD FROM HERE. ARRL CONGRATULATES ALL THOSE WHO JOINED US IN THIS EFFORT.



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